(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2473:	
CTTCAAATAC TAAATCAGCG TTGCTAAACA TACCGTATAC ATTTGATGGC GTTGATAACG	60
CGTCCTGCGC TTCTGTTAAT AACTTTTCAG TTTCAGCATC TAAnATATGA GGACGTTTTT	120
CATTAATCAA CTTCAAATCA AATGCGA	147
(2) INFORMATION FOR SEQ ID NO: 2474:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2474:	
CTTTAGGTGC TTGTGGTAAT TCTAATTCAC AAGATCAAGG TAACAAAACT GAACAAAAA	60
CA	62
(2) INFORMATION FOR SEQ ID NO: 2475:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2475:	
CCTTTAAAAT CATCTAGAAT ATCTCTTGAG AAAAATTCGA AATCTACAGT	50
(2) INFORMATION FOR SEQ ID NO: 2476:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: limear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2476:	•
ATAGTGGTTA GTCAATGTAA TTAAATGAGA ATAGAATGGT GATTTCATCT TAGCTTGATA	60
ATTAGCAGAA TCTTTAAAGA AAATTTTGTC TTnCAAGCCT AAGTTTACAA CGT	113
(2) INFORMATION FOR SEQ ID NO: 2477:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2477:	
CGTAACTAAC TCAATTTACT GAAAAAATCG CTTGCGATC AATAGCATTT G	51
(2) INFORMATION FOR SEQ ID NO: 2478:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2478:	
TAGTTGCCGC TACGTTTATA CTCGTATTAA TGAAAAAAAC TAGCAAAGAA TCTAAAAAAG	60
(2) INFORMATION FOR SEQ ID NO: 2479:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2479:	
TCGGACATGA TGGTAAAACC GTATTGGGTA TTCGCACTGA CACCTTAAGG GA	52
(2) INFORMATION FOR SEQ ID NO: 2480:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2480:	
TTCCTAATTA AGGATTAAAA AGGGTTTCCT AATTAGATTA nAATTCCGGGACCTGGATGG	60
AAAAAAGTTT TTAACTTTTC CATCTGGTCC CGTTTTTTGA TTTTCGATAT AAAAAAAGCG	120
CAATTATCTC TAT	133
(2) INFORMATION FOR SEQ ID NO: 2481:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(D) TOPOLOGY: linear

() GROWENCE DECODEDWION, GROUD NO. 2401.	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2481:	
AAATGTTTTG GAAGAACGTA AGAnAAATCA ATCTGAAACA AATGCACGAT ATGAAGAAGA	60
ACAAGAAAT TTAATGGAGC TTTTAGAAAA TATATCAAAT GAGATTTCTG AAGCTCAAGA	120
TACTTATAAG TCTCTGAAAA GTAAACAAAA AGAACTCAAT GCTGTCATTC GTGAACTTGA	180
AGAACAACTA TATGTTTCAG ACGAAGCACA TGATGAAAAA TTGGAAGAAA TTAAAAACGA	240
ATACTATACA TTAATGTCAG AGCAATCAGA TGTTAACAAT GATATTCGTT TTTTAAAGCA	300
TACTATAGAA GAGAATGAGG CTAAAAAATC CAGACAGGTT CTCGTTAGTT GGAGTTTTGA	360
GCCATTGAAA GTATTCnGGG GGCCAATTAA AACCGCCAAA	400
(2) INFORMATION FOR SEQ ID NO: 2482:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2482:	
AAGGTGCATA GTCAACAACA TTTACAGCAT CATTTGATTC TGAACTACC GAAACATTAT	60
ACTTACCG	68
(2) INFORMATION FOR SEQ ID NO: 2483:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2483:	
ATGAGCCNAC ACAGTGGTGA GGTAATCAAC GGTACAGTGG TTAGTGTGAT	50
(2) INFORMATION FOR SEQ ID NO: 2484:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2484:

CGGAACTCGT CGAATAACTT TTTAGATTCT TCGTTAGCTT TTACATTAGC GAATGCTTCT	60
nTGATTGCTT TGTATTCTTC GCTTTCTCTT AAAGCTTGTT CTAATTGATT TGCATAATCA	120
TATAAATTTA CTGCCATGGT TATAGCACTC CTTGGTnGTG ATGTTTATTA AAACGTTCGA	180
TATTACTTTA CCACATCTCG CTTTTTTAGA CAA	213
(2) INFORMATION FOR SEQ ID NO: 2485:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2485:	
GACCAAAATT ATCTTTAGCA CTTATAGGTA TCTTTTTAAT ACTTTGTGAG TTTTTCTATG	60
GCATTCCTTT TTTAGGTGCA ACGTTTATTT TAAGTTTTGG ATGGCAGCCT TTACTCTTTA	120
ATGCATTACT TTATCTAATT CTTACTATTA TATTATTAGT GAATAGACAA AATGCGATTA	180
GACCTATAGC GATTATTCCA ATATTTGGTA TAGTAGGT& TTTTTTAGCT ATTATCCCCT	240
TCTTAGGAAT TTTGATTCAT TGGATTTTAT TTTTCCTAAT GATTCCAnTT GTCCTAGTTG	300
GATTATCAGC GCCAACCTAT ATACCCAATA AAAATGCTCG TGnCnTTTTA CACACAATAC	360
AAAGATGGAC CTAGAG	376
(2) INFORMATION FOR SEQ ID NO: 2486:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 2486:	51
(2) INFORMATION FOR SEQ ID NO: 2487:	JI
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2487:

GAATTTTGGC ATACACATAC ACTTTAAAAG ATATTATTGA AATTACAGGT GTAACTAAAA	60
GAACTTTACA TTATTACGAT GAAATAGGAT TATTAGTTCC AGn	103
(2) INFORMATION FOR SEQ ID NO: 2488: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2488: AATTACATTA GCACCAATCC ACACATCATT TTTAATTGTT GTACGGCTAG GTTGGTCATT	60
AAAGTCTATA AACGTTTnCT TTAAGTTAAA TGGATTATTA TTTAGA	106
(2) INFORMATION FOR SEQ ID NO: 2489:	106
<pre>(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear</pre> (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2489:	
TGAATTTGCT TGAGTCGTGC TGCTGATAAC AATAAAATTG CACATGGATA AAGAATGACG	60
C	61
(2) INFORMATION FOR SEQ ID NO: 2490:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2490:	
GCTCGTATGA TACAAATTCA TAATCTGAAA CTTCTGTCGT TTGTCGAACA TGTGGTAACC	60
AATTCTTCAA GATGCTGTAT ATTTCTGCGT AATTTTCGTC ATTCCTGAAT AACCTCAACT	120
TTAAAATGTC ACCTTGTTTG ATATAACGCA TTAAAAAATA TTGATCATA TCTCCCTTAT	180
CTTTAAGATG TTTTACAAAT GGATACAAAT TGTCGATGAT AAATGTATCT TGCGATGGCT	240
TATCGATATG AATATGTAAT GCAAACCAGT CTTTGTCATA TTCAATATCT GTATTTTTAT	300
ATTTTGGAAT TTCGATTTCG GGTCCTCGAT AAGATGATTT TTTATAAATT GGTGTAACAA TTTCATACAC ATGATCATTC TTTGATTGAG GGAAAAATGA	360
	400

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2491:	
GACTGTTTTA TCGCAACTAT TTACACCTAT ATTATCGTTA GTAGGACATC TCGTCGG	57
(2) INFORMATION FOR SEQ ID NO: 2492:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 baæ pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2492:	
CATTGAACTT GCTTTTGACG TACACCAGTA ATCAATGCCA TAATACGATC CGG	53
(2) INFORMATION FOR SEQ ID NO: 2493:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2493:	
AATACAACTA ACATACACTT ACCCATGTCC GAAGTCCnTG TTGAGGAATG	50
(2) INFORMATION FOR SEQ ID NO: 2494:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2494:	
GCTGTTTAGC TTGCTCAAAT GATGCATAAA TATCTGATGC AACTATCATA TCAGCTAGTT	60
CATCA	65
(2) INFORMATION FOR SEQ ID NO: 2495:	

(2) INFORMATION FOR SEQ ID NO: 2491:

(A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2495:	
CCAGTAACTG CAATTGAACA AACATATTGGGTTTTTGACC AACATATAAA CGACAGAGGT	60
ATTAAGCTTT CTAAATCATT GATGTTAGGA GCTAATGTGC TCGATAAGCA GAGTAAAGAA	120
GAATTGCTTA AACAAGCTAA ACATATAACA GGTTTAGAAA ATCCTAATAG TCCTACACAG	180
TTATnGGCTT GGTTAAAGGA TGAACAAGGA TTAGATATAC CTAATTTACA AAAGAAACG	240
GTTCAGGAGT ACTTAAAAGA AGCAACAGGA AAAGCTANAA AAATGCTAGA AATTAGATNG	300
CAAATGTCTA AAACCAGTGT GA	322
(2) INFORMATION FOR SEQ ID NO: 2496:	
(i) SEQUENCE CHARACTERISTICS:(A) IENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2496:	
ATCAGTGTTA ATTCGCACGG AATTTCCTTC CATTAAACTA ATCCGATCAT ATAATGGAT	59
(2) INFORMATION FOR SEQ ID NO: 2497:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2497:	
CTAATTAAGC CAAAAGGGGA AGGGTCCACC AACCCTTGGT TTCCCCCCAT TGCCCGGAAA	60
CCACCAGnAA GTTTAAAGCT TCCCTTTAAG CCGTCCGATG GGTAGTCCGA ACTTTACCGT	120
TCCCGC	126
(2) INFORMATION FOR SEQ ID NQ 2498:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(i) SEQUENCE CHARACTERISTICS:

(D) TOPOLOGY: linear

CACTTTGCGC CAGTTTTCAG TTGAGTGGCA TAGAGTCTGC TCATCAGTTC CTTGCTCC	58
(2) INFORMATION FOR SEQ ID NO: 2499:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 90 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: limear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2499:	
TCATGATGCA GACGCAACAG CATTTGGTTA TGAATATGGA CAAATACCAC AGATGCCGGT	60
AGCATTTCAA TCAAGTAAAC CTTTAATAGA	90
(2) INFORMATION FOR SEQ ID NO: 2500:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2500:	
TGCTCAAAGT CGTGTAGACA GCCAACTAAT GCATTTT@A GATCAGTGAC ATCTCCGACA	60
CCAAAGAAAT CACCGAATAT TTTTGCATGT TCGATTTTAC CTCGTTTAAC ATCAAACTTA	120
ATTTGTACAA ATCCTTTTTC AAATTTTTCC TCGCGTTCAA AGTTATATTT AGGGTTTCTA	180
CCATAATTCC ATTCCCAAGT TCTATATTTG TCGTTACTTA ACTTTTCAAT ATTnTCCCAA	240
TCTTCATCCG TTAATTGATA TTCTTCnACT TCAGTTTCGC CAAAGATAGT TT	292
(2) INFORMATION FOR SEQ ID NO: 2501:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: dowble (D) TOPOLOGY: linear	·
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2501:	
GGTGTGTGTA GAGGTCGAGA GTTGGGGGGG GAGTAACGTG GAAGTTGCCC GGACAGCA	58
(2) INFORMATION FOR SEQ ID NO: 2502:	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2498:

(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2502:	
ATACGGGAGG TATCAGCACG TACGTGCAGT CGGTAATGGA TCnAAATACG	50
(2) INFORMATION FOR SEQ ID NO: 2503:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2503:	
ATCCCCACTC TTTTTTAAAT GATTTAACCA TATTTTATTT	60
AGTGTATCAA TAAATTTATC ACATGTCAGA AAGTATGCTT CATCTGAATA CACCAATACT	120
CTCATGAAAC TTATTAAAAA TTACTCTCTC AACGTAAAAn ACCATTCAAA TTCATGAATG	180
GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAATT ATTGTTGCTC	240
TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC	300
GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC	360
ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA	400
(2) INFORMATION FOR SEQ ID NO: 2504:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504:	
ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT	60
TACATTTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT	120
CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC	180
ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC	240

(i) SEQUENCE CHARACTERISTICS:

300

355

TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG

CAAAATAAGT CAAAATCGCC TTTnAAAATT GCATTTTCTA AATTnATTCA TANTA

(2) INFORMATION FOR SEQ ID NO: 2503	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2505:	
CCGTTAGTTC CATACCATAT TTTTTTTAT AAAATAATTT AACATCTAAT TGCCTTTCTA	60
ATTTTTCAAT AGGGGTAGAT ACAGTTGACT GTGAATAGTT AAGTAACTCT GATGCTTTAG	120
TAAGGTTCTT TGTTTCACTA GTTACTAAAA ATGATTTTAA AATGTTTAAG TTCAAAGTAG	180
TACCTCCTTT AGGGTTCCCT TTTATCGAAT CCTGAATTCT AAGAATTCTG ATTAATAAT	240
AATATATnAn ATAT	254
(2) INFORMATION FOR SEQ ID NO: 2506:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2506:	
AACTCCACCG TGTAGTTGCG CTTCATCGCC TTGAGGATGC GATTGGCGCC GTGCTGCGCG	60
GCACGTGCAG ATAGTGCGAG CACTTGGGCA GATCGCGCAC CGCCTCCAGC AGGTCGTCGG	120
TCATATCCTT GGGATAGTTC GTTACGAnTT GGATCCGGTC GATGCCGTCG ACATCCGAGA	180
TGCGGCACAG CAGGTCGGAC AGTCGCGTTG nCCGCTGGCA GTGTCGTAGT GGTAATGTTT	240
CACGGTTTTG ACCTAGCAGC GTTCACCT	268
(2) INFORMATION FOR SEQ ID NO: 2507:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2507:	
AAAAGTGGCT AATATCATCA GCAGATGTA TAACATAATC GAATTGCAAC CAGCGATTAT	60
ACCTTT	66

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2508:	
ACCTCCGCTT CAAATGTCAT TGATAGACAT TTAAAGCGGA GGCATGTACA TGT	53
(2) INFORMATION FOR SEQ ID NO: 2509:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2509:	
ACCCTATGAN AGATGAAGTN ATTAACCAAA AACCACGTGTTGTAATATTA	50
(2) INFORMATION FOR SEQ ID NO: 2510:	30
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2510:	
TTAACCTATT ATATTAATTT TAGTATCAAT TCTTTCTCCA GTTCCTGCGT CATTTTT	57
(2) INFORMATION FOR SEQ ID NO: 2511:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2511:	
ACGTGTTCAT AACCCATAAA GGCGAATATG GTAACACCGA ACATCATGAC Á	51
(2) INFORMATION FOR SEQ ID NO: 2512:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 101 base pairs(B) TYPE: nucleic acid	

(2) INFORMATION FOR SEQ ID NO: 2508:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2512:	
GTANAGCGGT CCGCGCTTAA AGCGCTTGCT AACTTCGAAC AATGAATCTG GGAACATCT	60
TGCGAATCCA CGAGATGATC TCATATGACG GGCAGCGAGG T	101
(2) INFORMATION FOR SEQ ID NO: 2513:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2513:	
GGGTAATGTA ATAGTATTCA TCTACATCAT CTTGATCATC GTAATGCTGA TTGTACCCTT	60
CTAAATC	67
(2) INFORMATION FOR SEQ ID NO: 2514:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2514:	
CCCGTCGTTT TCGTGnTTTT CGCGGCGTGT CTCCTGTTCG CGCCTCTACT	50
(2) INFORMATION FOR SEQ ID NO: 2515:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 275 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2515:	
AAGAAAATAT CTCTTGAATA CTGATCGATT GCCATCGAAA AACACTGTTA AATCAAGTTG	60
CCCAGTCCAT TGTTGTTCAT CCATTATGAT AATCCTTTGA GTAAAGTGTC GCGTTCAATC	120
CAATCGATAA CTTCATCCAA ACCTTCGTCG GTTTTTAAGT TAGTAAAAGT AAATGGACGT	180
TTACCACGAA ATACTTTAGT ATCTTCAGCC ATTTGTTCTA ATGATGCACC TACATAnGGA	240

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(2)	INFORMATION	FOR	SEO	ΤD	NO.	.2516
121	INFORMATION	FOR	ں ند پ	$\perp \nu$	NO.	12310.

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 59 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2516:

CTGCACCACC AATAACGTAA ATACTGTATA TACTAGTAATCGCTAATACA CCGATATTA

59

- (2) INFORMATION FOR SEQ ID NO: 2517:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 119 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2517:

TCTGCTACTA CGTATACGAT AGAATGGATT TCTTTTTGAA CCTAAACGTG TTAAACGAAT 60

TTTAACTGCC ATTTATAAAA TCTCCTTTAA GTCATGTTTT AATTTTTATT TTCTACAnG 119

- (2) INFORMATION FOR SEQ ID NO: 2518:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 60 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2518:

ATTTCCTTTT AAGTTTTTAA AAATCCAAAA TCCTTGTGGT AGGGCCATGA AAGGTTGGG 60

- (2) INFORMATION FOR SEQ ID NO: 2519:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 294 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2519:

ATAGAAGTGA AGCACGTAGA TTGAAACGAT GGTTAAATAA CGAGAGACAT TTAGAAAACA 60
ATAAAAATGA GGAATAATCA ATGATACATG GAATTGGTGT AGATTTAATC GAAATCGATC 120

GAATACAAGC GTTATATAGT AAGCAACCAA AATTGGTTGA GCGGATTTTA ACTAAAAATG	180
AACAGCACAA ATTCAACAAT TTCACACATG AGCAACGTAA AATTGAATTT TTAGCTGGCA	240
GGTTTGCTAC AAAAGAAGCG TCAGTAAAGC ATTAGGCCCC GGCCTnnGGA AACA	294
(2) INFORMATION FOR SEQ ID NO: 2520:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2520:	
TTTTAGGCCG AAGANGTAGT AATTTCCGGT CCTTTAAGGG GCGGGTGGTT AACCATGGCA	60
ATTAATCCCA GGGATGACCT TACCTAATAA CCACCTAATA ATTACCCGGA CCAAAGGTGG	120
AAATAATCCC TCCGGTCCTT CCCGG	145
(2) INFORMATION FOR SEQ ID NO: 2521:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nwleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2521:	
TTTTAGTCAC CAAAATTCTC GCATTTAACT GATACGAATG TGCAATAACT AAAAATCGAT	60
CTAATAATTG CGTTGAAAAA TTTGGCTCGA CAGCACTCAT TACAATACn AGTGTATCTA	120
TATTACTTAC AGGTGGTCTT TTCAACTCAT TTTCCCGCTC AAACACTTG	169
(2) INFORMATION FOR SEQ ID NO: 2522:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2522:	
ATCCAGCCTT TCAACAAATA AATCTGAAAT TCGATGTTCT AAAATTTCTG CTTCTTGATG	60
TACTTCTTCC CAATTATATT TCAATATT	88
(2) INFORMATION FOR SEQ ID NO: 2523:	

(A) LENGTH: 228 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO 2523:	
CAGTAACATC AATCTGTCCT GTAAGCTTGT GGTACTCCGA TACAACCATA AGTCAACGCA	60
CCACCAAAAA CGCCTTGGAG CCGTTCTACT TATTAGTCCA AGTTTAGACA TTGAAATACC	120
AACAACTTTG CAntccatag tatctgaaaa tgtagacatt gcctgcaata aatttaacnc	180
ATCATTTTA TTATGTGCA TTACTGCTAA TTTAACGTAT TCTGGGTT	228
(2) INFORMATION FOR SEQ ID NO: 2524:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2524:	
CTCATCCATA GCGCTGGTAT TAGTATAGGT GTCAAACCAT TAGCGTATAT CATATCTTCT	60
GGATGTNCTC ACATATTCAT AGATGCACAT TTTACTTCTC TCGTACCTTA GTACTGGGA	119
(2) INFORMATION FOR SEQ ID NO: 2525:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2525:	
TACCAATATT AAATTTGAAC ATTATAGTTT GÆCATCATA ATCTATCTTC TCTATTTCAT	60
TATAACTAAT ACTTCTATAA TAAAATTGGC CATTCATATC TACATTCATA ATTAATCTTT	120
CATTTGTTGC TATAAATGCC CCTTCAAATT CATTCTCACC TTGAACTTGA TACTCAATTA	180
TTCCTAGCAC TGACGGACCC TTTTTTTCAG TTGGAAATAA ATCATTTGGA TTCACATAT	240
CTAAAATCAT AATATCCCTC CCACTTAAAA CTATAAACTA TTCTTCATAG GTATATGAAA	300
TACAAGTGAT TAACTATTNA TNATNAAGCT TAACTTGTAT TCCCTTTTCA AGATAAT	357

(i) SEQUENCE CHARACTERISTICS:

(2) INFORMATION FOR SEQ ID NO: 2526:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 261 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2526:	
CACGCGTCCG GCCACCTGGA CATGGCCGAC CTAGAAGCCA AGCTGCANGA GGCCCAGAAG	60
CATCGGCTGC GCCTGGGTGG CCACTGATGG GGCCTTTTCC ATGGATGGCG ACATCGCACC	120
CCTGCAGGAG ATCTGCTGCC TCGCCTCTAG ATATGGTGCC CTGGTCTTCA TGGATGAATG	180
CCATGCCACT GGCTTCCTGG GGCCCACAGn ACGGGGCACA GATGAGCTGC TGGGTGTGAT	240
GGACCAGGTC ACCATCATCA A	261
(2) INFORMATION FOR SEQ ID NO: 2527:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2527:	
CTnTAGAGGA TATGAGTTCC TCATCATAAG AATTTCTGGA TCCTTAATAG ATCTCTTGCT	60
ATATATATG TAATAGAAAC ATCTTTTAAG GATCCAGAAA TTCTTAGA	108
(2) INFORMATION FOR SEQ ID NO: 2528:	
 (i) SEQUENCE CHRACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2528:	
TTTTAAAATA CTTGGTAGAA GTTGGAATGG ATTAATCATT AATTATCTC CAAGATGTAA	60
TGACTGTTCA GCACACTTTT CCGATATGAA AAGAGATTTG AAnaCAATA	109
(2) INFORMATION FOR SEQ ID NO: 2529:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

GATTAAATTT GTTATACCTG GCTTGTTGTC ACGATCAAAT TTAATAATAC CATCTGAATC	60
AGTTACTGCG CTTTTAATTT TTTTAGCTGC AACATTCGGC TCGTCTAATA ATGAAATnGA	120
GTTTTTAGCA TTATCATCAC TCTTACTCAT	150
(2) INFORMATION FOR SEQ ID NO: 2530:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(with groupings programment, group no. 2520.	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2530:	
TTCTTTTTGG CCAGTGGCAG GAAGTACGGT CTTATTTGGT GTTATGTTAA GAAGGTATTC	60
CCATTTATTT ATCGTTAAAT ATGNATATAG TATAGTAATT TTAATTTGTT GCATCATAAT	120
ACTAGGT	127
(2) INFORMATION FOR SEQ ID NO: 2531:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2531:	
CACATAATGA TTCGAATTAT TGTTTTAATT AAACCTTTTT CACATATGTA TAAATTTTAn	60
AGAGCGCATG CGTGAATATT TTCATTTGAT TCAAAGGCAA AAGATAGCCT TATACTCTTT	120
TC	122
(2) INFORMATION FOR SEQ ID NO: 2532:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2532:	
AAATAATAGA GCAATTGGCA CATGTAAGAA TGCAAATTGA CTATGGCATC CAGTATTTTG	60
GTCACAAATG GGTTGTATAT GAGCATGTTG AAAAATAAGT CTTATGnTAA ACACTTAGTA	120
AAATTA	126

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2529:

(2) INFORMATION FOR SEQ ID NO: 2533:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2533;	
GAGAGCGGCC GCGTGTAAGG AGAGCGGCGT TCGTTCGCGT GACGCGAGTG TGGTTCGCGA	60
GAAGnGGACC AGAGTTCCCG ATCGAGGCTG TTCGGGTAAA T	101
(2) INFORMATION FOR SEQ ID NO: 2534:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2534:	
TTGCTCATTA AAGATTATCC CAATCAATAT CATCTATATT TGTTGTACCA CTATTATCTT	60
TTTCTCTTTC TCTTACTTTG TnCATTGTAC CAGTAGATTC AAGATATATT GT	112
(2) INFORMATION FOR SEQ ID NO: 2535:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2535:	
ATAACGAATC CAAAAATATA GAGAATGACA GTGAAACTTA AATAGGACTC T	51
(2) INFORMATION FOR SEQ ID NO: 2536:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2536:	

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TTATGCAAAT TTGGCGCATG GATTAGGAGA TTGTGCTGGG ATAGCTGAGG ATTTGA

(2) INFORMATION FOR SEQ ID NO: 2537:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 158 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2537:	
GGATGTACCA CCAGCATAAT AAACAACTTC AAATGGATTG ATAAAGAAGA nACCAGCAGA	60
GATAGGTAAT TCATTACCAT GTTCTTCTTG TAGACGTTTA CCTTCTTCAA TCTTTTGCTC	120
ATTTGCATCA AGTTGTTGTT GTAAGTTATC TCGCTTGT	158
(2) INFORMATION FOR SEQ ID NO: 2538:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2538:	
TATATTCATT AAATCCACAA AGCGGTCCCG TATAAA&TG GGTTTCCATT	50
(2) INFORMATION FOR SEQ ID NO: 2539:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2539:	
AAAGTATACA TATCACTCAA CTAATCAATA ATCATACTTA CCTTCAACAA ATTCTTTAAC	60
ATGCAGTGTT ATCCCTTGAT AATATGGATA TTTnGTTAAT CTA	103
(2) INFORMATION FOR SEQ ID NO: 2540:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2540:	

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CAATCAATTT GTCTATCTGT TGAGTGGCAA CCTCTAATAA GCCTTTTATA TGTCA

(2) INFORMATION FOR SEQ ID NO: 2541:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 126 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2541:	
TGGAAATAAC GAAAGTATTA TTAATTTAAA GCATCTTTCT CCCAATACTT TAATGAGTGA	60
TATTGTTTAT ATACCGTATA AAACACCTAT TTTnGAGGAA GCAGAGCGCA AGGGAAACCA	120
TATTTA	126
(2) INFORMATION FOR SEQ ID NO: 2542:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2542	
ATCAGTTTCT TCAAAAATAA CTGAAGTATC TGATGCTGAA AATTGGAATA GTTGATGGGT	60
CGGGnTATTG ATTTTTATCT GATGTAAAAA TCCATAAGTG CCATAAGATG TATATAGTTT	120
CTTCATATGA AAGGTCCCCC TTATGTnTTT ATTTATTATA CGATGATAAA CTAGTCATTA	180
CCACTATTAA TAATTGATTA A	201
(2) INFORMATION FOR SEQ ID NO: 2543:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2543:	
GAACTTTATT ACAGGAATAG ATAAGCACAG TCGTGTTACA CAGACGCTAA ATGCGCGTTC	60
GTATG	65
(2) INFORMATION FOR SEQ ID NO: 2544:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 102 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2544:	
AGCTATTAAT GGCGCTATAA TTGATACAAT AGTTATGAT AATAAAAAA TAACCGATAA	60
CATTGCAATT TTATnATGAA TAAATTTAGG AAATGCAATT TT	102
(2) INFORMATION FOR SEQ ID NO: 2545:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2545:	
AATCTACATC CAGCATGATC nACATCAnAG CnGGATTCAC CCTTACTTCA	50
(2) INFORMATION FOR SEQ ID NO: 2546:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2546:	
AACCATTCAA CACACGACAC TAAAGTGCAG TACAATCCTA CAAAACGATT GTTTTATCG	60
GGTGGTCTAA CCATTGAATA AATAATGAAT AATGGTAAnA	100
(2) INFORMATION FOR SEQ ID NO: 2547:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 156 base pairs(B) TYPE: nucleic acid(C) STRANEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2547:	
ATTGAAAATC TTTTATCATT TCATACGTGT GCATAATTAA AAAGGTGAAA CCTCTTATTT	60
TGAGATTTCA CCTTTTTTAT TGTTAATTTA AATTTAATTT	120
GGTGTAAAGT TTGTnTGTTT TCACGTGAAC AGAATT	156
(2) INFORMATION FOR SEQ ID NO: 2548:	

(i) SEQUENCE CHARACTERISTICS:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2548:	
AAAGTGAAAA TTGGAGGTGT AATTTTGACT AGAACTTATA ATATTATTGG TATCCTTTCT	60
TGTCTTATAT CTTTTATTAT TATGGCGTTA CCAATNATTT GGTACACAGC TTCAGCATTA	120
TGGTTCTTCC CAGGTGCAAT CA	142
(2) INFORMATION FOR SEQ ID NO: 2549:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2549:	
CCÇAACCCTA CnAACGACAT TACACAATCA GTAACAGATC GGTATTAAGA CTGGATATCG	60
TGGCATCTGT TGAGTTAATA TCAACAGTCG TCCAGAACTC G	101
(2) INFORMATION FOR SEQ ID NO: 2550:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2550:	
TGTAACCATG ATTTAGATGA CTAAACGTGC TTGCCAACATGCTTCATCCA ATGCCGAATC	60
CTTTAGCTAC AT	72
(2) INFORMATION FOR SEQ ID NO: 2551:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2551:	
CAGTAAGAGG ACAAGGCTAT AAGGTGGAGA ATCATGTTTA AAACACTCTA TGCTAGAATT	60

(A) LENGTH: 142 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

GCGATTTATT CCATTACGGT TATTTTATTT AGTGCATTAA TAAGTTTTGT ATTAACAAAT	120
GTTTACTATC ATTATAATTT AAAAGCATCT AATGACGCGA AAATCATGAA GACGCTTAAA	180
GAAGCAAGAC AATATGAACA ATCAGCTAAA CCAACGCACA TTCAACAATA TTTCCAnACA	240
TTTAGGGTCA AATGGAATTA CCAAATAATG ACCATGGATC CATAAAGGTC nTnAGACCTT	300
TTT	303
(2) INFORMATION FOR SEQ ID NO: 2552:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2552:	
TTTACTTTAG CCTTTATTGC ATTTGTAATT TATAGAACTG CGAACAGGTG ACTACTGTnA	60
ATTTATGTGA TTAAAGTTTC AATGATATTT GATTTATTAG ACCATTGCAA AAGCGCAAGG	120
TTCTCATGTG CTGCTACAGT TTGCGGTCTT	150
(2) INFORMATION FOR SEQ ID NO: 2553:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2553:	
GCACTCGTCA ATAAAGATGA AGCAGCATTT AATCAATATA CGGCAGAATA CAAAAATT	58
(2) INFORMATION FOR SEQ ID NO: 2554:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic æid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2554:	
CTAAAGTTGA GAAAGCTAAA AGTAAAATAG AGAAACGTAC ATTCAATGAC TAAGATTACT	60
AAAATCGTTG AATAATCAAT CATAGCAGTA AGCTATGTnA TATATTTTTA A A ATTGA	118
(2) INFORMATION FOR SEQ ID NO: 2555:	
(i) SEQUENCE CHARACTERISTICS:	

(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2555:	•
ACAACTTCAA AGAAATCATG TCACAAAAAA AGTATTTGAT TTTAATCATA nGTGGCGACA	60
ATCCGCATAC CAAAGCACAA CCTTTAGTCA ACCAATTCAG AT	102
(2) INFORMATION FOR SEQ ID NO: 2556:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2556:	
AGATGCATTA GCAGCATTAG ACGTTAAACC AGTTGGTATT GCTGATGATG GTAAGAAAAA	06
ACGTATCATT AAACCAGTTA GAGAAAAAAT TGGGGATTAT ACTTCTGTAG GTACACGTAA	120
ACAGCCAAAC TTAGAAGAAA TTAGTAAATT AAAACCGGAT TTAATTATCG CTGATAGCAG	180
TAGACATANA GGTATTAATA AAGAATTAAN CAAAATTGCA CCAACATTAT CATTAAAGAG	240
TT	242
(2) INFORMATION FOR SEQ ID NO: 2557:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2557:	
TGCACTCATA ATCATCGGAA TATGTATAGA ATCAACTATC ACTTTGCCGT GTTTATCTGT	60
GTTAAATGTG TAACCATAAC AGTGTGTCCC ATTTGGATTA TGAATCTCAG AATAATCATC	120
AAAAATATCC TGAATTTnCA AATTAATTTC ATTATAGCGG nAGAATGTC TATAAAATTT	180
AAATATAAGT TCCCCAGTCT CTGATTTTC TTCTGATATA ATAAAGCGTT CAGCATTCCA	240
TATTTCAA	248
(2) INFORMATION FOR SEQ ID NO: 2558:	

(A) LENGTH: 102 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 400 base pairs

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2558:	
TTTGGGTCGT GATTGAAAAA ATCTAAGGCT AATAAACCAT GTTGTTCTGC GCTTAATAAT	60
TGTTTGAGTA TACGGTTAAT AATTAACTCT GTATCATGAG GGTTGACGCG AAAGTCAGAG	120
CGCATATAAG TCATATAATT CTCGAAGATT TCTCTATCAG TATTGCTTAA TCTTAATGAT	180
TTAACATTAT TTTCTTTTGT TAATTGCGCA GTACTTTTCA TTGTTACTTA AGCGCTCCTT	240
TAAAAATGTT TAATTCCAAA TTAAAATGGA AATGATTTTA TAGTATTAAT AAGGTCAATC	300
ATATCATATT AAACGCATAA ATATAACGAT TAATATTGGA GAGGAAAATG AGGACACTTA	360
ATAAAGATGA ACATAATTAT ATCAAGCAAA TAGCTAATAT	400
(2) INFORMATION FOR SEQ ID NO: 2559:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2559:	
AAGGGAAATT TAAAAGTATC ATTTGATTAT ATAGATTGGATTAAATTAGG TTTTGGCCCA	60
TCAGGAAAGG AAAACTACTA TATGTACAAA AAATTTGGTA TTTTACCAGA TATGGAATAT	120
GAAATGGAAG AAATTCGAGC AGTAGAGAAG TATGTTAAAG AGCAAGAGTA GCAGACATGT	180
TATAAAAGAC TGTGCAAAAT CACCCTCGTT TTACATTTGA TTCAAAGAAG AAGGTAAAAG	240
ATAAGAnTAT TTGCAACTTA AAAAGTCAAT nAGCTTATCG GTATCCATAC ATCATGGATA	300
AATGAGTnCA ACTAATTAAC AAATCACGAT ATA	3 3 3
(2) INFORMATION FOR SEQ ID NO: 2560:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2560:	
GTAAGACATT CACATTTATC ATTTCACCAC AATGGGTTTA CCAACCATGG TTTAACGAAT	60
CCAAAACTTT GATGCTGTA TGTCTCA	87

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(2) INFORMATION FOR SEQ ID NO: 2561:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2561:	
TTGCATTTTG ACGTAAATGA TTAAACAAAT CGTGATTATC TCTTAATTTT CTAACCGCCT	60
TTTCAATTTC TAACGGCGTA ACTTCCTTTA GAACAATGCC AAATTTATAT TTnTCAT	117
(2) INFORMATION FOR SEQ ID NO: 2562:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 60 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2562:	
AAGTCAAACA AAATAAGCAA ACAGACTGGT CÆAAGATAA GTTGAATAAT ATAGCTTTGA	60
(2) INFORMATION FOR SEQ ID NO: 2563:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2563:	
AAGTGTTATT ATTGTGATCA TAAAGTGAAG TATTACCTTT TTTATTCGTA ACCCGATTCC	60
ATGCGCCTTC AACATAAACT	80
(2) INFORMATION FOR SEQ ID NO: 2564:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2564:	

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AGACATGGGC TTATCAGATA AAGTAAAAGC ATTACCTAAA GGGGGAGGG GTAAGTCATT

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2568:

TTTTAGGATT TGTAGTAGGT GAGCGACGTA TTnnGGATGC AATCCAGAGA ACAATAAATA

TTGAGAGAGA GCAATTCATA ACGCAGTTGA AATACATGTG TTACGAATTG CTTTTATGTT	120
AGTTTTTATC ACACAAGTTT TTTGATGCAA CCCCGTGATA GCGAAACTCA TATGTAGATA	180
ATACAGCTTT TTCAGCATCA TCTACATGAA TTCCAAACA TCA	223
(2) INFORMATION FOR SEQ ID NO: 2569:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2569:	
AATAATGCCA TACAGTGAAG ACCATGCGCA TCAATCGATG TCTAGTGTGT ACTACGTC	58
(2) INFORMATION FOR SEQ ID NO: 2570:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 250 base pairs	
(A) BENGIN. 250 base pairs (B) TYPE: nucleic æid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2570:	
CGTTTCATTA GTTTTAAATG ATCCCCAATA CTTTTTGTAC CTTCACCAAC TATCGTTCCA	60
ACACTATCTA CAGCTTTTTC TGTGGTATTT TTAAACAGCG TCTATTTAAT GCTTATCCA	120
ATTAGTTTTA TCTCTTAATC CAAATTTATT AGTATGAAAA GTCCAATTTT TAAGAATTGT	180
CTAAACAGAT TCCGCAACAA AACCAGCTAn AAACCGTCCA TACTATTGGA ATnAAAACGC	240
CAATGTTATA	250
(2) INFORMATION FOR SEQ ID NO: 2571:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 174 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2571:	
AGCTCCTTTC TTTCTAGTTA ATATCATTnA ATCTTGTTTT TCAGTGTCAA AATTACCTGT	60
AAAAACAACA TTTTTATCTT TTAAAATAGG GATTACACTT TCCACTTCTA TTTTATTAAT	120
CTCAGATATT TTCATATGAA TTTTTTGAAA TCCTGAATCG AAAAGTTTAG TTGG	174

(2) INFORMATION FOR SEQ ID NO: 2572: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2572: CATGCGGTAG GTATTTCTAA TCTATGGACA AATGGCGGAT TTATGCCAAA TGGTATTGTT 60 GGTTTCTTCT TTGCATTATC AATTGTAATT GGTTCATACC AAGGTGTGGA ACTGATAGGT 120 ATTACGGCAG GTGAAACTAA AGATCCTCAG AAAAATATCG TTAAAGCAGT GAATGGTGTT 180 ATCTGGAGAA TTTTAATTTT CTATTTAGGC GCTATTTTTG TTATTGTTT AGTGTATCCT 240 TGGAATCAAT TAGGAGACAT TGGAAGTCCG TTTGTTGCAA CATTTGCTAA AATCGGTATT 300 ACATTIGCAG CIGGATIAAT TAACTITGIT GIANTAACTG CAGCAATGIC AGGAIGNAAC 360 TCAGGGNATT TGCAGTGCGA GTCGTAATGA 390 (2) INFORMATION FOR SEQ ID NO: 2573: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2573: TAGAGTACAG AACATACGCA AGGAACTCGG AGTTTACTCA CGGGACTTnT 50 (2) INFORMATION FOR SEQ ID NO: 2574: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2574: TACAATTACA AACGCATCGT GAGATGTTTT AAGCATCAAT GAGAATCTAA CTCTCCAAG 59 (2) INFORMATION FOR SEQ ID NO: 2575:

- (B) TYPE: nucleic acid
- (A) LENGTH: 400 base pairs
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(i) SEQUENCE CHARACTERISTICS:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2575:	
GACACAACGT ATGACGCATG AAGAGTTGCG TGTTGACAAT CAAGATGATC ATAGCCAAGT	60
TAGTCTAAAT GGTTACACAA AGGGGTCTGA GAAAGATCAA GAAGCATTCA CTAATAATAA	120
GGATGAGGAA GCAGTTGCTG CTAAAAATCC TGAATCAGAA GAATATAAAG TGAATGAAAA	180
AATAAAAAA GAACATAAAA ACTTTATTTT TGGTGAAGGT GTTTCAnGCG GTAAAATATT	240
AGCGGCATTA TTATTCGGTA TGTTTATTGC GATTTTAAAC AAACATTAT TAAATGTTGn	300
TTTACCAAAA ATTAATACGG AATTTAATAT TTCTGCGTCA ANAGGGCAAG GTTGATGACG	360
GGATTCATGT TAGTAAACGG TATTTTAATA CCAATTACGG	400
(2) INFORMATION FOR SEQ ID NO: 2576:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2576:	
TTTAAATCGT ACCTTAAATT TGAAAGTAAT AAGACACACC AATTACCTTC TAACTCTATC	60
GATAGTTTCA AACAAGAAAT CGnTAGTACA TTCAGTTATT TAGAACGCGT TGATTACCAG	120
CT	122
(2) INFORMATION FOR SEQ ID NO: 2577:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2577:	
CACATTGAGG TGCAGTCATA CCTTGTTTAA ATGTCCAAGC ACGTACTTCT T	51
(2) INFORMATION FOR SEQ ID NO: 2578:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2578:	
AATTATGACT ACAGGTCTGA CTCCCCCTTG TTCAGATCCC TGTACTGGTG ATAAATCTGC	60
TAAATAAACA TCTCCTCGTC TAATCATTCA TTCGTTGAAT TAGAAGATAA ATATGTTTCG	120
TTGCAATCGC ATGCTTCACA CTCTATCGGA AAAGCTTCGT TCGCTAGGGA GAGATTTAAA	180
TCAGCCATTT GTGAATATCC TTCTTTTAAA GATGTTCTA AGCTATGACT TCTATTTTGA	240
CTAAAAGATA ACATATGAGA ACCTCCAATT GATTCCAAAA GTTATTAAAT GACCTTTAAT	300
TACTCTAATG ATAACAAATT TTATATGCAC TGACCATATT ATTTTAACAA TTCATTTGTT	360
ACAAAACGGT GGATCACCCA TCATGGATAG AGTCGCGGGn	400
(2) INFORMATION FOR SEQ ID NO: 2579:	
(A) LENGTH: 112 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2579:	
ATAAAAACCT AATTGACTCA TAATCTTCTA ACGGTATATC ATCCACAATC ACAGTATGAT	60
TAGGATTATC GTTAGATACA TCTnTCACTG CCTTATCTAA CCCCTCATCA CC	112
(2) INFORMATION FOR SEQ ID NO: 2580:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 231 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2580:	
CATGANTNTA ACGGATTCAT TCCATATATC AATTGCGTTT GTTATTTTAA TAATGCTATT	60
TTTTATTTTA AAGCCCACAG TAAAAACTAA CGATAATATT GCCACTTATA AGTTTTTCAC	120

- (2) INFORMATION FOR SEQ ID NO: 2581:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 60 base pairs

GCTATTTAAC TTTAATAAGC TAGGGCCAAG TTTGTCATAA GATAAGCGCA C

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

ACTACAACTT CGATTTAAGC TATATTTATA AAAAAATGCG CCTACTCATA ACATTCTTTG 180

231

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2581:	
ACTTCGTAAA ATTTATCTTG AGTGGTTGTT TCTATATTAA GATTCATTTC ATTACACTCC	60
(2) INFORMATION FOR SEQ ID NO: 2582:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2582:	
GTCAAATGCT GAGTTCTAAT AATGATGTTG GCCACCATGC ATACAAAAAT GCTAAAAGAG	60
AATTACGCAA GATTTTAGAT AGCTATCTCG AAAATGGTAA ATTAAAATAT TACGATATTA	120
TCGTTACAAG CAATTTAGCT ACTAAACATC CGTTTTTCGA GTATGACGT TCATTTGATT	180
TTATCATTGT TTCAGATATC GGTTTAATAA ACGTTGATGT AAAAAGCTGG GGTGAAAAAA	240
CATTTTATCA CTTTGATGTA CCTGATGAGC ATGATACAGA nAnA	284
(2) INFORMATION FOR SEQ ID NO: 2583:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2583:	
GAGTCAGTCG AAGTTTGTCG TTCGACCCGT AGAAGTGTAA AACGGCATTG TGAATG	56
(2) INFORMATION FOR SEQ ID NO: 2584:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO 2584:	
TCGACTAATG TAATGTAGGC ATTGGACGTC AAATGTAATG TGGGGCAATC CGACGAGATG	60
ATGGTGC	67
(2) INFORMATION FOR SEQ ID NO: 2585:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 52 base pairs

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2585:	
CGTAACCGCC CCTTGTCCGG GCCCTCCAAG CCTTTTAAGG GGACCCCCCG GA	52
(2) INFORMATION FOR SEQ ID NO: 2586:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 238 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2586:	
ATTAGCAACA ATGTCAGATA ATCGATACCA ACTAATTAGG CGAGAAGCGG TTTCTCATGG	60
TCTTAGTGGC CTAGAAATTG ATGTATTTGA TTTGCATTCA AATAAGTCTA GACATATTAG	120
CTCGTTATCA GGTGGAGAAA CTTTCCAATC GTCGCTTGCA nTAGCTTTAG GGTTAAGCGA	180
AATTGTACAG CAGCAATCAG GAGGTATTTC AC'ANAATCA ATATTTATTG ATGAAGGA	238
(2) INFORMATION FOR SEQ ID NO: 2587:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2587:	
ACTGGAAAAA ACCGCnAACA CGACATTGTC AAAACGACGG CCAGTGCCAA	50
(2) INFORMATION FOR SEQ ID NO: 2588:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2588:	
Gngcaattat accactatat ttatttctta tactccattt gatttatagt tgtattaata	60
CATTGACTCA AAAACTAATT AATCAAATAT GTTTTTTAGA TT	102
(2) INFORMATION FOR SEQ ID NO: 2589:	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2589:	
GCATAATATC GGATATGCGn GTGTGTCAGT CnCATAGTCG nTGGATTGCG	50
(2) INFORMATION FOR SEQ ID NO: 2590:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2590:	
TTANAAATTG CCTnTCCAAT InTAAGAATC CTTTTTCCAA GGTAAAAAAA	50
(2) INFORMATION FOR SEQ ID NO: 2591:	
 (i) SEQUENCE CHARACTERISTICS (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2591:	
CTTCATCCCT TACTTTTAAT TGTCACGTCA AATAATATTT GTCTTTAACT AGTAATAACT	60
CCAAATATAT TTAGTTTGTG GTGCTAGCTA TAAACACAAA TGAnTCATAA CACTATATTT	120
TGATTTTGTT CAATTGTTTT TATTTTTGGA TAATAAATGA ATTTGTCATT TGTTATTCTG	180
TGATTTTnAA TTATTTATAT	200
(2) INFORMATION FOR SEQ ID NO: 2592:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2592:	

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid

60

TGCATTAATC ATCTTGGATA CTCTTTCTAC CAAAGTAATG ATTGCACTAC CATGACGACG

ACCAGCAATA GTAT	74
(2) INFORMATION FOR SEQ ID NO: 2593:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2593:	
CACCTGCTCA CCTCTATTTT CAAACAATTA TGATTGAATT GAATCATTCT AATTTTTGTA	60
AAGTTACTTG TTTAATTTAT TATATTTATT ACTCTATGA TAACAAAAAT ACTGTTTGTG	120
TATAACAATA AATTGAGATA CTCAATAATT TGATAATGTG AAATTGATAC TTTTCAAAAT	180
AGTTGAATAT GACAATTAAT GATTAGTTTT GCnATGGTGC TATAAnCAAT ATTTAGCAGT	240
TATC	244
(2) INFORMATION FOR SEQ ID NO: 2594:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 201 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION SEQ ID NO: 2594:	
ATATGGTATG GAACTAACGG AAGAAGGCTT AGCATACGTT AAATATGCTA AAGTGATTTT	60
AGATAGTAAT AGCGAATACG AGAGAGAnAT AAAAGGACTT TACAATAAGA AGGTAAATAT	120
AAGTATTAAC ATGCAAGAnA GTCAGTATTT GTATCGCTAC TATAATAAGA TTAGTGAATG	180
GTTAGCTGAA CACCCATATG T	201
(2) INFORMATION FOR SEQ ID NO: 2595:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2595:	
AAAAAGTATT AAAAATTGCA ATTCTTAAAC TGTTATTCAT ATTAATATTT CTAGCAAATA	60
ACATTGTAAA ATAAAGAAAA ATAATTAnAG TATTGCACTT TATTGAAATT TATATTACGA	120
TAGTAATGCA GAAATTTATA TATGCAAAT ATTATA	156

(2) INFORMATION FOR SEQ ID NO: 2596:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2596:	
TGATCCGCAA ATCGCTGAAC ACGTTCTTCT ATTGGAATCC CTCCATTCAC TTTTAGCTAG	60
AC	62
(2) INFORMATION FOR SEQ ID NO: 2597:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2597:	
TTACCTTTAG nTTTTAAAAC CTGACCCTCC AACCAGCCTA ATEGTTAAA TGGGGATCCA	60
TTTATATAAT CCCAGGCCTA ACCTTCCAAG GACCAACCTA AGGGATTAAT CCCCCCAATG	120
GCCAAAGTGG GATGGGTAAT	140
(2) INFORMATION FOR SEQ ID NO: 2598:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2598:	
ATTAATTGGG GAGTTAAATT AAAAAAAAGG GGTTCCTTCC AACCGGAnCC ATTCCCATTT	60
TGGATTAAAA ATTCCCGCCT TTGAAAAAAT TGTTTGCCGA ACCGCCCTTA AG	112
(2) INFORMATION FOR SEQ ID NO: 2599:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2599:	
ATACCGCCCC CAGTTCAATA AGAAGCCCTG GATCAGACCT GACCCTGGTA TGGGGGGAAT	60
ccc	63
(2) INFORMATION FOR SEQ ID NO: 2600:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2600:	
ATACTATGGA ATGCCTTAAT GGTGGATAAT TTCACCAAAT TAATTTTAAA AAC	53
(2) INFORMATION FOR SEQ ID NO: 2601:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2601:	
AACTAAAGGT TCTAAAGATA CAGTAAAAAT TGAAAATAAC TATAAAATGC GTGGCGAGAA	60
AAAAGATGGT AGT	73
(2) INFORMATION FOR SEQ ID NO: 26Q:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2602:	
CGGTTGCCAG CCAAAACTTG GCAnCAAGG CAATTATAGC AAGGCACCCA CCTAAATTTG	60
CGGACCACCC GGAATGCGGC CACCAAAGTT GGTGGGAGGC CATTTTAA	108
(2) INFORMATION FOR SEQ ID NO: 2603:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2603:	
AAGCTTATAA CTATTTGTGT TTGTGATCGA GATAGGTTTG CCTGTAAAAA TGGCCATCA	59
(2) INFORMATION FOR SEQ ID NO: 2604:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2604:	
ACGTCCAAAG GGCCGTTCGC CCCAGAnGTG CTGGCAAGGT TCACAACGn	50
(2) INFORMATION FOR SEQ ID NO: 2605:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2605:	
GTCCAATGTC ACATTAATTG ATTGGTATAA GCGATCACAA GGnCATAGTG AATATTTTGC	60
ACCAGACGGT GTACATTTAG AGTACAAAGG AGTCCTAGCT TTAAAAG	107
(2) INFORMATION FOR SEQ ID NO: 2606:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2606:	
GTTTAAAGCA ATTTGGAAGG ACATTGGTTA AAGGATGGGA GTGGCAAAAT CTGG	54
(2) INFORMATION FOR SEQ ID NO: 2607:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 366 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2607:

GTTTTAGCTG AAGTTAATGA TGAAGATATC GGAGCTATGG TAATTAAACT AGTTAAACTT	60
ATTTTCATGC TTGATTATGT TTTATTTCAT TCAATTCAAA AAAGCTATAC AACACATATG	120
AATGAGCTTA AAAATTGTTT CGATTACATA GCTGAATTAG ATAATCATTA TGCATTAGCA	180
ATGTATCGTA GAACGCTAGA ATGTTATACT GAACCACAAA TTGATGATTC AAATGATGGC	240
ATAGTATTCT CTGAGTTAAC ACATCCACTC ATAGCAGATG GCAGTAGCCA ATGATTTCnC	300
ACTATCACAn AATATACTGT TAACTGGGGT CGAATGCTTC GGGnTAAATC AACATTTTAT	360
GGAAAT	366
(2) INFORMATION FOR SEQ ID NO: 2608:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2608:	
TTCTTAGACG TCAGGTGGCA CTTTTCGGGG AAATGTGCGC GGAACCCCTA TTTGTTTATT	60
TTTCTAAATA CATTCAAATA TGTATCCGCT CATGAGACAA TAACCCTGTA TAAATGCTTC	120
AATAATATTn GAAAAAGGAA GA	142
(2) INFORMATION FOR SEQ ID NO: 2609:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2609:	
GGGTCGTCAA TTGAnGGCAG GTAGAGCATT AAGTCAGAAT TGTAGTAAAT	50
(2) INFORMATION FOR SEQ ID NO: 2610:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2610:	
ATTGGGTGAT GAATTTTGAC GGTATTGTCA AGTCCAGTGG CTAACTTCCG G	51
(2) INFORMATION FOR SEQ ID NO: 2611:	

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2611:	
ACAAACTTCG GACTGCCAAT TACATTTACC TTGGGGGGTC AGAAACAATG GGTGCATAAA	60
GGCCCGTGTT TCGAAACGGG AAAAAGCCCA GCA	93
(2) INFORMATION FOR SEQ ID NO: 2612:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2612:	
ATGATGTTTT TCGGCTAATT TTTATACTGA ATTTAGTTTA ATTAACTTAT GATATTTT	58
(2) INFORMATION FOR SEQ ID NO: 2613:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2613:	
TTCTCACCAT TAACTATGCA TACTCACTTT ACACATAAAT TTGCTTAACA TGCAGAACGG	60
AAATAAATCA TTACCACATA TAGATCCCAT CATATATTTA nA	102
(2) INFORMATION FOR SEQ ID NO: 2614:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2614:	
TGAACTACAA GACGCTTATA TCATTGACGC ACATTTCTCG CAGTGAAAGA AACACTTGCG	60
TA	62

(A) LENGTH: 93 base pairs

(2) INFORMATION FOR SEQ ID NO: 2615:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 120 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2615:	
TGGAGCATTT CACATACATT GGCAACCTA TGGAGCTTAT CATTCTACCT TGGGGnACAG	60
ATATAACAAC ACTAACGCAA CATGGATGGT GTCGTTGATA ACTTTCAATC TATAGAATTA	120
(2) INFORMATION FOR SEQ ID NO: 2616:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2616:	
CTGTAGTAAA TTGCCAGAAT CCGTATCAAT ACCAGTCTGT GACTGCGTTG GCC	53
(2) INFORMATION FOR SEQ ID NO: 2617:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2617:	
ACATATGATA TGAGTATATT AACGTTTAAA TTATGGATAC TCZAAAGACA GGCGATTTTG	60
Anaaatcagc aaaaagttat atgatgtaag tgggacagac atactagatg taacacatta	120
ACCAAGTG	128
(2) INFORMATION FOR SEQ ID NO: 2618:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2618:	
CCTAACCGTG TGTGTATGTA TACCTACAAA AAAATTTACA TTGTGACACT GCGTACGTG	59

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 2619:	
GCCCATGGTC AATCAGACAC ACGGATTGAA CGTTAACAAT TTATGACTTT AACA	54
(2) INFORMATION FOR SEQ ID NO: 2620:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2620:	
ATCATTGTCA CATTGAGTAG CCGTAAAATG GTCAGACGAT CAATGCGAAC TGA	53
(2) INFORMATION FOR SEQ ID NO: 2621:	
 (i) SEQUENCE CHARACTERISTICS: (A) IENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2621:	
CTAAGTGTCG CCCGAATAAC CGTCAATCCA CGGAGCACAT AGGATCTCCC ATG	53
(2) INFORMATION FOR SEQ ID NO: 2622:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2622:	
TGGGACCGAT AATCATTCGC ATGAACACCT TCCACCGTCT CTTACTCACT ACCTACGGC	5 9
(2) INFORMATION FOR SEQ ID NO: 2623:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	

(2) INFORMATION FOR SEQ ID NO: 2619:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2623:	
ATTAAATTGT TATTTCGTCA TTAGGTGACA ACTTGTATGT AGATATTTTA ACATATTTTA	60
TGCT	64
(2) INFORMATION FOR SEQ ID NO: 2624:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2624:	
CCGTCCCAGA ATATCATATG ACAAATGTTA AGAGACTTGA ATGATCATAC ACGTG	55
(2) INFORMATION FOR SEQ ID NO: 2625:	,
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2625:	
GTGGTCACCA GGTACGGGGG ATACAGGGGG TTAATCCCAC CTTGGATAAG TGGAAAACGG	60
ATTTCC	66
(2) INFORMATION FOR SEQ ID NO: 2626:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 62 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2626:	
CCACCAATGG GTGGGGGATG GAATAACCCT TAAT@GGTG GTACCCGGGT AATGGTAGCC	60 62
(2) INFORMATION FOR SEQ ID NO: 2627:	
(i) SEQUENCE CHARACTERISTICS:	

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2627:	
CATGTTTTTT CATTCCTTGA TGACGACACT AGAGGTTCCC GTGTTCATTA TTAA	54
(2) INFORMATION FOR SEQ ID NO: 2628:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2628:	
TTGGCCAATG GGCGATACAC CCTCTCAATT CGATACATAA CTCAAGGCTC ATCAT	56
(2) INFORMATION FOR SEQ ID NO: 2629:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	-
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2629:	
TGTCGCTAGG TAACCGTGCA TCGTTCACAG GTACnTATGA TTTCACCnGA	50
(2) INFORMATION FOR SEQ ID NO: 2630:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2630:	
GAAGGnCCCA AACCAGGCGT TAAAGGCCGA TTGGGTTTAA ACCAAAGGTT	50
(2) INFORMATION FOR SEQ ID NO: 2631:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 65 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2631:	
CGCGAGTGTA TCCGTCGATA TGTCGAGAGG AAAGATTGAA GTGTGGAAGA GTGTTGAGTA	60
ACCCT	65
(2) INFORMATION FOR SEQ ID NO: 2632:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2632:	
TGAAAGAACT TTAGCTAGAC GTTCGTAAAG GTCTTTTGAC ATAAAGCTAG AGA	53
(2) INFORMATION FOR SEQ ID NO: 2633:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2633:	
AAAAGCCAAA AGGAATTAAT TAACCCCGGG GTTTAATTTC TAATGGGAAT TTG	53
(2) INFORMATION FOR SEQ ID NO: 2634:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2634:	
GGTGTTCACA TTCTGAAGGT TTAGAGAGTT AAGATTATAT ATATATAAGT TTTGGGGTGA	60
TAGATATG	68
(2) INFORMATION FOR SEQ ID NO: 2635:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 80 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2635:	
CCAATTTCAC TTGGTGCTGC CATTTCGGTC TCTCGTGTAC TTGTGATTGA GGTGCCATTG	60
TTCCCGTAGA TGGTTCACAT	80
(2) INFORMATION FOR SEQ ID NO: 2636:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2636:	
CTTACACCCA ACTTATTGAC TTATAATCTA TTAAAGTGCC ATTTTACAAT CTGAATCCCT	60
TAATATAGCA ATAATTACAA CTTCCGACAA ATGACTTGTT TTATGTGCGT GATTCATCAA	120
TGAACATCGT AATGCGACnT AATA	144
(2) INFORMATION FOR SEQ ID NO: 2637:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2637:	
TAATTCGGCA ACTAATATCA AGATCATGAT CAAATACTAC TGCCATTTTC TTATACCTCT	60
TAATGTGAAA TCACTGnCAA CACATAACAT CTTAAAACTT TGAC	104
(2) INFORMATION FOR SEQ ID NO: 2638:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2638:	
CATTCATCCG TTTTTTTGGT TCATGTACAT ACCATTGTTT TGTACACAGC GAAGTCAGTT	60
AACCTTATAT CCTTGTATAA CAGTTGAAAT CGGCAATATT AAACAGTACT TTCCCAATTG	120
CTTTCTTCCT CAATTGTGCG ACGGACTGTA n	.151

(2) INFORMATION FOR SEQ ID NO: 2639:

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2639:	
AAGATCAACT GAAATTCATG TGTTGCCCTT TATTAAGATC ACATGGAAAT A	51
(2) INFORMATION FOR SEQ ID NO: 2640:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2640:	
TTAGCTAGTT GGTAGGACGG CTACCAGGCA CGTCATAGCG CCTGGAGGGG TC	52
(2) INFORMATION FOR SEQ ID NO: 2641:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2641:	
CAGGCTTAAA CCTGAGTTAG TGCCATTCAT AATTGCAATC CCAAGCGACG GAA	53
(2) INFORMATION FOR SEQ ID NO: 2642:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2642:	
ATGTTTGTCA TCTGGAGCnA TAGAACAGGG TTCATCATGA GTCATCAACT TACCTTCGCC	60
GACAGTGAAT TCAGCAGTAA GCGCCGTCAG ACCAGAAAAG AGATTTTCTT GTCCCGCATG	120
GAGCAGATTC TGCCATGGCA AAACATGGTG GAAGTCATCG AGCCGTTTTA CCCCAAGGCT	180
GGTAATGGCC GGCGACCTTA TCCGCTGGAA ACCATGnCTA CGCATTCACT GCATGCAGCA	240
TTGGTACAAC CTGAGCGATG GCGCGATGGA AGATGCTCTG TACGAAATCGCCTCCATGCG	300

(A) LENGTH: 51 base pairs

TCTGTTTGCC CGGTTATCCC TGGATAAGCG CCTTGCCGGn CCGCA	345
(2) INFORMATION FOR SEQ ID NO: 2643:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2643:	
CTTATACGGA TGTATAGGTC GGTCCAAACA TTTGATTTTA GTGGAGAGCA GCCTTTCACA	60
AATTATGTTC AATGT	75
(2) INFORMATION FOR SEQ ID NO: 2644:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:	
TACCGGTTAA TTAACCAGGG CCCCGGTAAA AAAATCCCCG GTATTCCCCA TTCCAAC	57
(2) INFORMATION FOR SEQ ID NO: 2645:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2645:	
AAAGCAATTC GCCCGATAAG AGTAGAGACG AATTGCTTTT AAGGTTAAAA CAAAGTGAGT	60
TCAATT	66
(2) INFORMATION FOR SEQ ID NO: 2646:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 63 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2646:

CAGTATAACT TGTGACCTAT TTAGAGGGGC ACGGTTGGTA CAATGAGTCT GAAACCGTAT	60
CAA	63
(2) INFORMATION FOR SEQ ID NO: 2647:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2647:	
TAGAACATGG ACCGGTATTT TACATCCTGT ACGCCTAATC TGTTGTAAGT ATCTTTAGTG	60
AACCGTTGCT CTGGAATAAC CGCGATTCTG GGGAAACAGT GTGTAAACCG ACTnTATGGG	. 120
GATGTGTGAG TAATCATTGT GNACTGTTGA TTCTGTTCTG GAATCCCATT TCACAACACG	180
ATCTTGGAAG TGCTGTCATT TTAGATGC	208
(2) INFORMATION FOR SEQ ID NO: 2648:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2648:	
TTTTAACCTA AAGAATACTA ACACTAAAAG AGAATGATTC TGTACCGCTT TCTTTTCA	60
CTCAATAACT TTATATTTAG TTATCCTTAT AATTGTAATT TATGTTAGTT GGTAAATnTT	120
TACATATATG TATTTGATAT GCTTGTAAAT	150
(2) INFORMATION FOR SEQ ID NO: 2649:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2649:	
AGTTTAACTG ACATCGAGTG GTACACAATA GCAATGGTTG TGTGTAAAGT CCTGGTGACA	60
ACATATGAGA GTAACATTTG TAGTGATTAT CTTGTACTGA GAGAATTGAC ATCTATGnAG	120
TTTATCACGT GCAAATAT	138
(2) INFORMATION FOR SEQ ID NO: 2650:	

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2650:	
TCACAATTGC AAACTTCTGG CACGCACTCA TCTGCGATTT CACAAGCTAC AT	52
(2) INFORMATION FOR SEQ ID NO: 2651:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2651:	
GAGTCAAATT AAAATGCCTA TTGGCCATTG TGATGTATAA TCACTTAGTT CACATATACT	60
ATGTG	65
(2) INFORMATION FOR SEQ ID NO: 2652:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYÆ: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2652:	
GGGCGGTAAT TGTCACCATC ACAAATTGCT ACGTTGAAAC ATCGAGGATT CAAGCTGGAC	60
AGCAGAG	67
(2) INFORMATION FOR SEQ ID NO: 2653:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2653:	
ACACATCTTA TATGTCTTAC TGATTTAAGG AAAGAATCAG TGGATCAAAC TG	52
(2) INFORMATION FOR SEQ ID NO: 2654:	

(A) LENGTH: 52 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2654:	
CAAGCTGTAA ACCAAGAATT CCAGCATTAA ATATCTCTCn TGGTATCGGT TGAGATAAAT	60
ATTCCGTGTG CTCATTAAAT GTAGTAATCT TTATTGTAGT TCCTCAACCT ATGACAGAA	120
TATTGCACAA TATTAGTATA GACAAATATT TCCTTTATAA TCTCATTCAA TTTTCTCCTT	180
TAATTATGTA TCATACATTG TATATTCTCA TATAGACGTT TTGnCATATT CATAGCTTCA	240
ATATTAGTGC ATTTATGTAT T	261
(2) INFORMATION FOR SEQ ID NO: 2655:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2655:	
AATCCTATTA GCACTTATAA TGATCATGAA AAGATGTCAT CGAGAATCAC CTAGTACACG (2) INFORMATION FOR SEQ ID NO: 2656:	60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2656:	
CGCCGAAAAC AATAAATTCT CGGAACATAG AATTTATCAC ATACCACGCT TGGATTATCA	60
CAATGGACTG AGTCG	75
(2) INFORMATION FOR SEQ ID NO: 2657:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 202 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(A) LENGTH: 261 base pairs

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2657:

TATTAAATAT GCGGTTGCAT ATATCTACGG CATGATTTAA CCGTGAACCA TGAATCATTT	60
TAATCGGGCA CGCGTAAAAT GCTCATTGAT CCGCAnATAC CACTATATAT CTAATAGCAA	120
GCGTCCAGGA TTCTGTGTTT TATAAATTTA AACTAACTGA AACGTGTGTA TCAGTTCACT	180
CCGnTCGATT ACCACACTTC AA	202
(2) INFORMATION FOR SEQ ID NO: 2658:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2658:	
CGTACATGTG CATCATGTAT CTACGTCAAT AAGATGATGG GGTCACATGA TTGGACCATT	60
(2) INFORMATION FOR SEQ ID NO: 2659:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2659:	
CTAATCATGT CATGTCTACA ATTATTTGGA GTATTGCTGA CGAAATGCGT TGTACAACTT	60
TTTCATTCTA GCACCTTGCG GGGGCCCACA AAnGAATTGG TCCATTCTCA nCATCAGTGG	120
GGGGCGCGAA TAATTTCGAA ATTATTCTGC CACTCCCACT TCATCGATTA AGTTGTAACT	180
CTACATTACA TTTGTCTTAA ACCATTG	207
(2) INFORMATION FOR SEQ ID NO: 2660:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2660:	
TTAATTATGT ATAATACTTA ACAAGATCAC CTGATAGATG TCTAAATATT ATCT	54
(2) INFORMATION FOR SEQ ID NO: 2661:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 130 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2661:	
ATTAAAAAA AATGGGGTAA TTTCCGCCAA ATCCCGTTTC CCCCTTGCCA AGGCCAAATT	60
TAACCACCCT TGCCAAATnA TTAAGCCAAA TTTTCCGATA TTTGTTTCCG TAATGTTTCT	120
TTAATTAATA	130
(2) INFORMATION FOR SEQ ID NO: 2662:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2662:	
AAAGTAAAAC CAGTCTATTC AAAAAGGTGA AAATGGTGA CGCAGCGTAA ATAAnTGGTC	60
TCTGGTAGGG TAAATCGCGT TGTGGGTTTG TCACATCAGG AACT	104
(2) INFORMATION FOR SEQ ID NO: 2663:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2663:	
AAAAAGAATA AAAGGACTCG AAAAACTCAA AACTTATTnT AGATAGTCAT CGTGACAAGA	60
AACAAACATT TAACTAGACT AAGAAAAATG CTTCGATTAA AAGGCAGACT ATCA	115
(2) INFORMATION FOR SEQ ID NO: 2664:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2664:	
GCATGCGCCA CGGTGTCTCA GCAGAGTGAC TGCCACCTTG TGTGCGCAGA GTCTGCGCCT	60
AGTACAGTCA GGGTGAAACA CNCTATACGC ATTAGGTACA GTACTTCCTG TCTCCGACTT	120

(B) TYPE: nucleic acid

GAGTAGAACG TGACATATCT ATCAGCATTC ACTCGAAAAA GGGA	164
(2) INFORMATION FOR SEQ ID NO: 2665:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2665	
AATTACGCAA TnTCCCTGTC TTAnTGAAAG GAATTGACCT GTTAATTCGT	` 50
(2) INFORMATION FOR SEQ ID NO: 2666:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2666:	
ACAATTCAAT AGAATTTACC CGTAACAGCG TTGCACTGCA CTCAAGACGG CTGACGTATA	60
GCAC	64
GCAC (2) INFORMATION FOR SEQ ID NO: 2667:	64
	64
 (2) INFORMATION FOR SEQ ID NO: 2667: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	64
(2) INFORMATION FOR SEQ ID NO: 2667: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	56
 (2) INFORMATION FOR SEQ ID NO: 2667: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2667: 	
(2) INFORMATION FOR SEQ ID NO: 2667: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2667: GTAGAACCAG CGACGGCGC GCGGCTGAGC AACATCTGAC TACCTATCGG CCGCGC	
(2) INFORMATION FOR SEQ ID NO: 2667: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2667: GTAGAACCAG CGACGGCGC GCGGCTGAGC AACATCTGAC TACCTATCGG CCGCC (2) INFORMATION FOR SEQ ID NO: 2668: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

(2) INFORMATION FOR SEQ ID NO: 2669:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2669:	
GCAAGATCGA ATTACAATCA CGACGATCAA CGCACGTAAT CATCTCTGAT CACAGTAA	58
(2) INFORMATION FOR SEQ ID NO: 260:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2670:	
ATACCAGCCA GACTTCGATC AACAGGTTC AACTGCATTG CCCAGTAAGT TGGATAGCTC	60
GCACATAGTG CTACAAGTTA ACATATACAn CGAGTTTGTA TCTCAAGCTT GAAGCTTGAC	120
TACC	124
(2) INFORMATION FOR SEQ ID NO: 2671:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2671:	
CGCTTACTGC ATAAAAGCCC CTAACACCGG GGCACTACGC TCGTTGCCG GCTT	54
(2) INFORMATION FOR SEQ ID NO: 2672:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2672:	
TCAGCGATTT AACACTAATT CTTCTAGCTA TTCTCTGTAT TTGGACGACG A	51
(2) INFORMATION FOR SEC ID NO: 2673:	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2673:	
GATAAGTTGT ACCATATTTC GATGCAATTC AATGGACAAT GAGGTCACCT GGCTTGT	57
(2) INFORMATION FOR SEQ ID NO: 2674:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2674:	
TCCTTTGGCC AATTTTTCCA AGTTTTAACC CAAACGGCCC GGGTTGGGTC CCCAATTCA	60
ATCCAAAATA ATTTTA	76
(2) INFORMATION FOR SEQ ID NO: 2675:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2675:	
TCCGGGAACC TTACCCAGTG GCCCTACCCT ATGGGTTAAC CCAACCAGTG GGGCCA	56
(2) INFORMATION FOR SEQ ID NO: 2676:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2676:	
TGCGGGGTCT CGTGCCGCCG TCTGCGGTGG TTGTTTGT	60
GCCAGCT	67

(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid

(2) INFORMATION FOR SEQ ID NO: 2677:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2677:	
GGACAGAGGC CTTGACCCCC CCACAATCCT GATTCACCGT AAGTTGCTCT CCCCC	55
(2) INFORMATION FOR SEQ ID NO: 2678:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2678:	
AAATTGGGGC TTCCATCCCC ATTCCAAATT ATTAAAACCG TTTAGGGGCC TTATTGGCAC	60
CATGG	65
(2) INFORMATION FOR SEQ ID NO: 2679:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 176 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2679:	
ATTTTGGGAT TAAACCCTTA ATTAAAATTG GCCGGGAAAA GGAAAAGGCC GGTTGGGAAA	. 60
AGGCCAAGGA AAAGACCTTG GGAnACATTA AAAACCTTGG GCCAAGGCCT TCCAAAAACC	120
GGTTGGTTTT TATTTTGGGA ACCAAATTGG GGGGCCGGGA TGGGCCAAA ACCTTG	176
(2) INFORMATION FOR SEQ ID NO: 2680:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2680:	
GCCCCAAAGA ATTCAAATAA CCnTTCGGAC CCGGTAATGG CCACnTAATT	50
(2) INFORMATION FOR SEQ ID NO: 2681:	

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 55 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2681:	
TGTGCATTTA TTGCATAACC TATATATGTG TGACCGATAT TTAGTGCGCA CTTCAATGGT	60
GCG	63
(2) INFORMATION FOR SEQ ID NO: 2682:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2682:	
TTATCCAAGC TTCCGGATAG TTTCAAGAGA AACCAATGAA ATCCGTTATG GGACCAATGG	60
GT	62
(2) INFORMATION FOR SEQ ID NO: 2683:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2683:	
AACAGCATTC AAGTGAGTTA CTGGGGTTTA TGCACCATCA TTGGATATCT GCACAAGGAA	60
TTTCAACGTG	70
(2) INFORMATION FOR SEQ ID NO: 2684:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2684:	
CTTAAAATTC CCCAGTTTCC TTCCTTTTAA ACCCCATGGA ATTATCCCGG CCAAAAATGG	60

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 63 base pairs

ACCATTAT	68
(2) INFORMATION FOR SEQ ID NO: 2685:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2685:	
TTTTAACAAA ACACCTAGAT ATGTTCGCTG ATCAGAGATG CCTGGTGACC GGTGATCC	5 8
(2) INFORMATION FOR SEQ ID NO: 2686:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2686:	
ATCCATCCTT ATAGGCATTC ATCCTTTAAC ACCAACGATT TACATTATGG ATATAACGAC	60
TTGAGGGGGA ACGTGGGGTC CATCCTA	87
(2) INFORMATION FOR SEQ ID NO: 2687:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2687:	
ATGGCTGGGC GCTTTACGTG GCCACATTAG GATTATGGA CTGAAGCGTA	50
(2) INFORMATION FOR SEQ ID NO: 2688:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2688:	
AACGGTCGTA GGCAAGGGAC TCCCCCCnGG nGCTAnATGA ACTGGTCGTA	50
(2) INFORMATION FOR SEQ ID NO: 2689:	

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2689:	
GCTAGCATCC ATGGCTCCTA TGCCGAAGCT GAGTAGACTT AGGTGACGGG TGCGTGACAA	60
(2) INFORMATION FOR SEQ ID NO: 2690:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2690:	
ACTTAAAAAA GGAAGATTAG AAAATTCATA AAAAAATTTT GCTGGGGAT CTTGATCCCA	60
TGGGCCCATn TCTGGATTTA GGTTATTGGG TTGGCCAGCC AGGTTAGCGG GGCCCCCATT	120
CTTCCAGGCT CGGTTTCTCC CAGGAC	146
(2) INFORMATION FOR SEQ ID NO: 2691:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2691:	
ATTGGTGTCT AGATCATTTA ATACTAAACA TACAACACGA CTAATTCCAT TCA	53
(2) INFORMATION FOR SEQ ID NO: 2692:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2592:	
TATTGAATTC AAACTATGTA CTATTTCCTA AATAATACAA TAAAAACGAC TACCATACTG	60
GCCAGAAATA TATTTTATTT GTTACACATT AATTTCADTC CTCCATAATT TGC	113

(A) LENGTH: 60 base pairs

(2) INFORMATION FOR SEQ ID NO: 2693:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2693:	
GACTTATGTC CGTGTTCCGC TGAAGGCACG TCACGTAAAC TACCCGGTAC AGCT	54
(2) INFORMATION FOR SEQ ID NO: 2694:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
AND GROUPING PROCEDURED TO NO. 2004.	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2694:	•
CTTCAGCATG AAGAAGTCGC GTGATATACA TCATATCGAT ATATACCGAT TATATCATCA	60
GAACATTCTC CTGGTATCAT TAGATAGATG ATAATTTGAC ACAGTCCACA ATTTGTnACA	120
ACGCCGAGAC TCAATGGCAT CCTGTACnTG ATCTATGCCG GAAAACACTA GTCTATATGC	180
CCGCAGACGT CCACTATATG CATC	204
(2) INFORMATION FOR SEQ ID NO: 2695:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695:	
ATAACTCTAA TTTGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT	60
GACATAATCT TGTATTGTCG CATCATTCGC TGGTATTATC ATAnTGCGGT TA	112
(2) INFORMATION FOR SEQ ID NO: 2696:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTACCATTTTAAC	60
GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAAnACA CACTTTCCAT	120
AGCACTCATC TATAGTACTC AAATTCAG	148
(2) INFORMATION FOR SEQ ID NO: 2697:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2697:	
CCTATAATGC TAAACTTCAT ATATCTCTTT GGCAACTATC TCCCTTCTAT TACCAAAGTT	60
ACGATAGCAA nACAATAAAG CAAGCATGTC ATGCTTACTT C	101
(2) INFORMATION FOR SEQ ID NO: 2698:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2698:	
TTGATAACAT TTGAAAAGCT GCTCCGATAT CAGCAACCAT TTCATCGACC ACAATATACG	60
ACATAGTCAC AAAACTGATT AGAAGACACC AATTGCTGAT TATCAAATCA CAAATTTAAG	120
nTGAGATTCA A	131
(2) INFORMATION FOR SEQ ID NO: 2699:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2699:	
GATAGCGGTT GTTAATCAAA CGATGGTACA TGCTTACATG ATGCGCCATG TTTGATAACA	60
GCTCTCTATG ATTACGATGG AAGAATGGTT TATTTCATCT CAATTATTCC TATTAAATGn	120
AACATGCCCT AGCAAACGGA TACAACACAA TCACAACATC ATTTGAAAT TGTTAAACCT	180
GAGAACCACA TACGCGnAAC AC	202

(2) INFORMATION FOR SEQ ID NO: 2700:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2700:	
TTCGAATTTA ACAAACGTAT CACGCCATAA AGGTTGTATA TGTTGTTTGT AAATTC	56
(2) INFORMATION FOR SEQ ID NO: 2701:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2701:	
TATTGCGGGC TTATTAGTAC ACGATCTATA TGATGGTCAA ACTTATGTCT TTCATATCA	60
AGTGTGACAT TGTGCGGTGA TTATATTTAC GCGTCGTTAT CTACGAACGC CACATTAAGA	120
TTCGAAACTG ACAATCAACT CATAACGCCA TGGTCCTAGA AAn	163
(2) INFORMATION FOR SEQ ID NO: 2702:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2702:	
TANACAATCG TAATCGAGTC AATGATGTGA ATTGCCCACG TGAGCGCTAA GAATGCGACA	60
TTCCACACGA TAAGGCAGTG CGCATGCGCA CTGACCTAAT AACACTGAGG ATGAGTACTA	120
(2) INFORMATION FOR SEQ ID NO: 2703:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 103 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2703:	
CTGCTTGATT AGGATCGTAT TTATATGAAG ACTGTGTTCC ATAATGATGT GCGTTTTGGC	60

TGAAGTCCCT TAAATGTACn TGTGTATAAA TGCTATAATT TAG	103
(2) INFORMATION FOR SEQ ID NO: 2704:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2704:	
TCTATAACGC CTCTCATCGT TTGGTCACAT ATTACCATTA TTCATTTTAT GTTCTCGATA	60
ATTGTATGCG nTGTTTCTCA CTGTCATCAC ATTGATACAA CTCATTGTCA CTTTATACGA	120
TTCACACACC TCGATACGAG TGATGATATA TGACAAAGCT	160
(2) INFORMATION FOR SEQ ID NO: 2705:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2705:	
TTATTGTTTA AGATGGTTAA ATGTCATCAT ATAACAnTTA ATTTTAGCA ATTCGATATG	60
CCTATAACCT ATAAATTTCA CGTCAACAGA AAGTGACAGG CATACGGATG TGTGAA	116
(2) INFORMATION FOR SEQ ID NO: 2706:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2706:	
TTACACCTGC AGTGTATGGA CTATGGCTAG ATACAATAAT TTTAGTCATC AAnCTACATC	60
ATACAAACTT ACGACTTACA CATATCTGCT TCTAnATCTT CTAACTGATT AAAGCTCGAC	120
ATCGGAAGCT ATTCTAAATT ATTATCATAT ATCTAACTAA CTGACCTAAT ATATACTACC	180
ATAAATAACC CGCCTCAAGG TTCGCATCCG CATATAATGC TTAGAAGTC	229
(2) INFORMATION FOR SEQ ID NO: 2707:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 122 base pairs	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2707:	
TCCATATCAA TCCTGAAAGT ACACATATAT CGTACACCAT ATGGTACAAT TTCCTATAnT	60
ACACATCACG CATCTTTCAA GACACATGTT AGGCGCTGGT CGGTGTATCT CAGAAATĢCA	120
CC	122
(2) INFORMATION FOR SEQ ID NO: 2708:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2708:	
GGAACTTTTC TGATTAAGTG TTCACACGCC AACCATAACA TGTATTCATG CACACAATTG	60
TTGCTAAnCT CACTAACAAC ATACGACCAT TTACTTTCA ATACATATGA TCCGTATAAC	120
TCGAATTCnC TGCTTATAAA TGACCATTTT GACGTTCACA ATGTTAAACG ATTGGAAATT	180
TTAAAGTTAG CATGTCCACA TCCGAGCAGT AACTATGCCG TACCATTTGT ATA	233
(2) INFORMATION FOR SEQ ID NO: 2709:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2709:	
TTGTACCTAC CAACGAGGAT ACAATGGATG TCACACGAAA ATTGGGATAT AGAGTCCCA	60
GT	62
(2) INFORMATION FOR SEQ ID NO: 2710:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANGEDNESS: double	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2710:

CTTTAAAAAG GATAAATGAT TGAGANAAAA ACCCATTCGA AAATCATGCT GCTCATGCTG	60
TAGACTTATC GTTTGGACAC TCGCGTAAGA GCGAGCAGTG AAAT	104
(2) INFORMATION FOR SEQ ID NO: 2711:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2711:	
GTCCAGAATA TTAATCTGAC ACAACCATTT TAGCnGGTGG ATTAAATATA TACGACCTCA	60
CCGCAAGAAT CTCTATTTAA CTTAACCTAT CATGAATAAA CTGGCGCTTG TGATATCATA	120
TGAAGATTAG CGAAAGATAG C	141
(2) INFORMATION FOR SEQ ID NO: 2712:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2712:	
TGGTATTGAA TAGCAAAATT TTGACACTAT TTGCATACTC AATGATACAT CATATCGTTA	60
TATGGATTTT TATGGTCATT AATGGTAAGA ATTTGATACG GAATATTGGC AGGTTTGGAA	120
ATCAAATAAT ATGAGAAATT GTATTAACnA TTAGTCAAGT TAACGCTCAT AAATAGACTC	180
ATCnCGCGCT ATAACGCTTA CC	202
(2) INFORMATION FOR SEQ ID NO: 2713:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2713:	
TTGAACTGTC TAAGACTTGG ACGCTAAATG AATGCGTTGA TACAAACGGT GAATCC	56
(2) INFORMATION FOR SEQ ID NO: 2714:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 70 base pairs	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2714:	
CATGACCGAC ATCAGGTGCA AACTCCCTCA TTAATCTGGG AAAACTGTAT CCCGGTAGCT	60
TATCCTTGAG	70
(2) INFORMATION FOR SEQ ID NO: 2715:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQID NO: 2715:	
CCTATAACTA CTCAATATTG CAATTACACA TCCTCACTTT TGTCAATTGT TTGACAATCn	60
AATACACGTT ATGCACAACT CCATTTTAAC GGAATGGAGA GCACATATGG ACAGTAAATT	120
AAAT	124
(2) INFORMATION FOR SEQ ID NO: 2716:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2716:	
GGAATATGTA CTATTATCAT TTGATGTTAT TACTCATATT TTTTGTAATG AATGCTATCA	60
CCTACAAAAA ATTTACTTGA AACAGTAATA ATAATTAATT ACCACAAACC ATGATAAATT	120
TAATAnCTAA TCTAAAATAT CGCATGTTCA nAGCCACAAG ATATAACGCG TTCCGTAGAT	180
GGAACTAGAT AGTATAAGGC GCCGTGGAGC CTGCCT	217
(2) INFORMATION FOR SEQ ID NO: 2717:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2717:

ATGACATACG CGCATATACA TGCTATCCCG AACTAATATT GATGCGTATT ATGTAATTGG	60
AGCGAACACT CA	72
(2) INFORMATION FOR SEQ ID NO: 2718:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2718:	
CATATCATCA CTATATCCAT TGCGTAATAG TGATGATATT GATTGGCXA ATGGTATATG	60
GCAGATACGA TAACATAACn AACACCTCGG ATAATTGCTA TTAGCTGCGA AGTTATCGTG	120
CCTGATTTAA CGATGTAGA	139
(2) INFORMATION FOR SEQ ID NO: 2719:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 79 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2719:	
CTCTATCATA TCTAGCCATA TGCATGAGAT TATCGTTTAT CTCGACACGC TCTTAAAAGG	60
CGACACCGGC ATATGATGT	79
(2) INFORMATION FOR SEQ ID NO: 2720:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2720:	
CAATCACAAT TGAAATTACA CAAATACAGC CCATTGCATG ACACAGACCA ATC	53
(2) INFORMATION FOR SEQ ID NO: 2721:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2721:	
CGCCCGAGGC TACCATTTTA CCATAAAGAC CGGTCTAAAT CCTTCCGGTT TCCATGGGCC	60
ATTTGG	66
(2) INFORMATION FOR SEQ ID NO: 2722:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOIOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2722:	
TnCCTCGCCG AAAATGACCC AGAGCGCTGC CGGCACCTGT CCTACGAGTT GCATGATAAA	60
GAAGACAGTC ATAAGTGCGG CGACGATATC ATGCCCCGCG CCCACCGGAA GGAGCTGACT	120
GGGTTGAAGG CTCTCAAGGG CATCGGTCGA CGCTCTCCT TATGCGACT	169
(2) INFORMATION FOR SEQ ID NO: 2723:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2723:	
CCGGGCCAAG CTGGTGATCA CCGATGTGGA GCGCCAACAT CGCATCGAGG AAAT	54
(2) INFORMATION FOR SEQ ID NO: 2724:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic æid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2724:	
ATCGGTGATC ACCAGCTTGG CCCGGGACAA CTGCAGAGCG TGCAGCAGGA ATTC	54
(2) INFORMATION FOR SEQ ID NO: 2725:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2725:	
AAAACCATTG TCCACCTTTA GAAAGCTTTT GTTTTGGGAA TACCTAAAC GTGGTTAATG	60
GGCAATCT	68
(2) INFORMATION FOR SEQ ID NO: 2726:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2726:	
TTTAGGCCCT GTAACnGnTT GCCGnTTGGn CCGTGTGTAT ATCGGGGGAA	50
(2) INFORMATION FOR SEQ ID NO: 2727:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2727:	
GGATCATTAA ACGTGTATCA CCATCCAGTT TGCAAGACGG ATAAACTGCT GCAACG	56
(2) INFORMATION FOR SEQ ID NO: 2728:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 70 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 2728:	
ACCCATGGAG AATTAAATTT AAAAACCGTA TTCCGGGTGG ATGCTGGGTG GGTAAGTTGG	60
CCATACTGGG	70
(2) INFORMATION FOR SEQ ID NO: 2729:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2729:	
ACCACCTTCC CCAATAAGCT GGCCTAAAGC CCCATAATGG GCCATGGTGC GGCC	54
(2) INFORMATION FOR SEQ ID NO: 2730:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2730:	
TGTTTGGGGA CCTTAAATGG TTCCAAATTC CAACCACCCA CCAAAAGAAT TCCAGTTTCC	60
AATTAAGCCA GCCA	74
(2) INFORMATION FOR SEQ ID NO: 2731:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2731:	
AAGTTGGGGA TTAAGGCCAG TTATGGAAAG GATGGATGGT CCATTTGGGC TTATTAGAAG	60
AGCATT	66
(2) INFORMATION FOR SEQ ID NO: 2732:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2732:	
TTTGnAAAAG CCnGTAAGAG TATTTGATTT TGTTGGAGGC CAAACCAGAA	50
(2) INFORMATION FOR SEQ ID NO: 2733:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 102 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2733:	
AGTACCAGCG GACAATTCGG ACCCAACTTG GCAATTTGnG GTTTTGGACC AGGAAATAAA	60
AATCCGTGAA ACGGTGGCAA CTCCAAGGCC ATATTGTAAA AA	102
(2) INFORMATION FOR SEQ ID NO: 2734:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2734:	
CCAGGCTGGC AGTTTTCTA AAATGGTGGT AGGAAAATTA nCCAAACCAT TTAGGATGGC	60
ATGGTCTTCC ACGGATGGCG GCCGTTAACC CCAAAAAAGG CCATTCCATT	111
(2) INFORMATION FOR SEQ ID NO: 2735:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2735:	
CGTATGGGAT GGCCATTCTG ATGACACACA ACGGTTAGGT TAGCAACGTT GTCAAA	56
(2) INFORMATION FOR SEQ ID NO: 2736:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: ÆQ ID NO: 2736:	
CAATCCGGGT GTGCGGGCGT GTGTACAAGA CCCGGGACGA TTACCGACAT	50
(2) INFORMATION FOR SEQ ID NO: 2737:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ 1D NO: 2/3/:	
TAACATTTAT TGTGGAGAAA GTnAGGTATC GTGGTAGTGA GGATTGTGTT	50
(2) INFORMATION FOR SEQ ID NO: 2738:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2738:	
TAAATTTAAA CCCGTCCCGG TTTCCCAAAT TTGGAATTTT TTGGAACCCC TGT	53
(2) INFORMATION FOR SEQ ID NO: 2739:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279: ATACCCACCT TGGATTCTTA ATACCCCAAA AAGGCCGGGG CAACTTGGCT TAAAAAACTG	60
GCTTGTTTAA ATTGGATTTC CGGCT	85
(2) INFORMATION FOR SEQ ID NO: 2740:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 bæse pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2740:	
GGAAAGTTTA GTAGTTTAGA GTCGAAAAAT TAGTTTTCTA GTGTAACGAA TCCGGACCCA	60
AATTTTTTC	70
(2) INFORMATION FOR SEQ ID NO: 2741:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
, ,	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2741:

CGCGCCAATT TACCTGGCGC AGCAGACGCT CAACGAGGAG CACGGCAGCT GCG	53
(2) INFORMATION FOR SEQ ID NO: 2742: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2742:	
TGAAGAAATC GCACACATA TCGAACGCAG ATCGCACATC GAATGCATCA GAATCAGCTC	60
(2) INFORMATION FOR SEQ ID NO: 2743:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2743:	
TATCACCTCT TTTGCATATT ATTAGAATAT ATAATGATCT TTATAGAAAG GAAAGAAGAA	60
GAGTTATCAT nGCGATATCG CCCAGCGCGT CGTACACTAT GCCATGAATT ACACAATCAT	120
GCCTC	125
(2) INFORMATION FOR SEQ ID NO: 2744:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2744:	
GAATTTCCCC CGAAACCGGG AAAAATTTTT CCCAACCGGT GGCCTTCCCCGTTCCCGT	59
(2) INFORMATION FOR SEQ ID NO: 2745:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2745:

TTTTCCTTAA GTTAGTTTTT TTATTGGGCC AAAACCGGCC CCAGGAATTG A	51
(2) INFORMATION FOR SEQ ID NO: 2746:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2746:	
TAATTTGGTC ATAATGTTGT TTCAGATGAA ATGCTAACAA TACACTGATT ACAGT	55
(2) INFORMATION FOR SEQ ID NO: 2747:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2747:	
ATGGTGGAAT GGGATTTAGG TGGATGGCCC CCCCAACCAG CCGGTCCTTT TTAAGGAACT	60
TTGT	64
(2) INFORMATION FOR SEQ ID NO: 2748:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2748:	
AACAAGAGTT ACATTGGTTG TGGAAATCAT CGGTTTTAAT TAGTCCAAAA GGATGGATTC	60
AATCGGTAGG GGGGTAAG	78
(2) INFORMATION FOR SEQ ID NO: 2749:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2749:	
GCAAGTGGCG GAGTCACACT TATAGACAAG AAGTACGACA TCTTGTATGT GGTG	54

(2) INFORMATION FOR SEQ ID NO: 2750:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2750:	
TATTTAGATT CAAAGCATCA AATTGGTTTC GTACCCTTTT GCACATCGGT TGGGATAA	58
(2) INFORMATION FOR SEQ ID NO: 2751:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 79 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2751:	
GGAAAACCCC CCAAATTTTC CCCCCCGTT GGGAAAAGAG TTCCCAAAGT TGGAATTAG1	60
TCCCAAACCC GGGAGTTCC	79
(2) INFORMATION FOR SEQ ID NO: 2752:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2752:	
AGAACCGAGA GATAGTGCCG AGAGAGCGAG AGGTTTTAAT AGAGATGTTT GGCCGTACTA	4 60
GTTAGCCG	68
(2) INFORMATION FOR SEQ ID NO: 2753:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2753:	

ATAATCTATG GGGGGACCGT CTGGTAAGGA ACCTGGTTGC CTGCCAATG AAGCCACCCT 60

GGTT	04
(2) INFORMATION FOR SEQ ID NO: 2754:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2754:	
ACAAAGGTTT TACGCCCAAA TTGTTCACTG GCTAACTGGG CGATGGTTAG TATTGGCAGC	60
GCAAAAGTGG CAGGGG	76
(2) INFORMATION FOR SEQ ID NO: 2755:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ D NO: 2755:	
ACCTCAGGGA CAATTAAAAG TTTTTCTTCG GAATGAATGA CAACAACAAA T	51
(2) INFORMATION FOR SEQ ID NO: 2756:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2756:	
ACGTATTCCC TCGTTCTTAG GTCTTCTAAA CATAGGTGAC TTTTTGGTCG	50
(2) INFORMATION FOR SEQ ID NO: 2757:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2757:	
AAATGCTTCG TATTAACGCC TATTTTAGCT CCGTTATAGA CACAACTTAC ACA	53
(2) INFORMATION FOR SEQ ID NO: 2758:	

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2758:	
ACACGGCAGC GAATACTCGT TTGGTGAGCC TGTACACATC TAACACGAGA A	51
(2) INFORMATION FOR SEQ ID NO: 2759:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2759:	
GGGAAAACCA ATTAAGGATT TAAAGGTTNA TTTAAAGGGG CCGCCACCGG GTTGGGGATG	60
CCCTTTGGGC ACCTTAAGAA AGCCCCGATG GAAAGGGACC GGTTACCTTA ACCGG	115
(2) INFORMATION FOR SEQ ID NO: 2760:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2760:	
TTTGGCCAGG CCAATTAATT CCTGGTGGCC AATTAAATTT AAGGGGACCT TTGGGGGAAT	60
AAGGTTTAAA ATTGGAAAAT GGTCCAATTT GGACCTTTTG GCCAATTGGA TTCCCGGCTT	120
AAAAAGATTT GGACCGGTAA ATCCCTTTTT AAATTACCTC GGGCCAnGGC CCAACCAAGC	180
CAAACCAATT TAAATCCGCC TGGAAACCAA CCCATAnTTCCTTTACC	227
(2) INFORMATION FOR SEQ ID NO: 2761:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(A) LENGTH: 51 base pairs

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2761:

ACACTATTGT GCCAGCGCAC CTTCGAGGTA TCTTGCATCA CTCAGCTGTT TTTTACTGT	59
(2) INFORMATION FOR SEQ ID NO: 2762:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2762:	
TTATCCTGTT CCTAAGCCCG ACGGCTCGGC CACACGATTA ACCTTTAACG CCATCTTGTC	60
CAACCTGT	68
(2) INFORMATION FOR SEQ ID NO: 2763:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 116 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION SEQ ID NO: 2763:	
TGGAAAGTAC CATATAAGTA ATGGTAGTCG TTTCAGAAAG ATATAAATCG TTGGGAAAAG	60
	116
(2) INFORMATION FOR SEQ ID NO: 2764:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2764:	
TTGTTACAGT GGTGTAGCGG ATCGCACGGC CTTCAACTAA GTGGTTCAAT GCTTGATACC	60
AGTTATGAGT GTTGGTGC	78
(2) INFORMATION FOR SEQ ID NO: 2765:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 112 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2765:

ATATATTCGT ATGCACCTTT TGTAAGGCTT TGTAATACGA AAATTATCAC TACAATGATT	60
GCTGTAACGA GTAACGACAT ATATGGCACA CCGTTTTTAT TnGTTTTACC AA	112
(2) INFORMATION FOR SEQ ID NO: 2766:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2766:	
TATTGAAGAT TTTTTCGAAG ATAAAGGTGA CACATATTCA TGTCATGTTT AATATCGTTA	60
CCTTACGTAA CCATATAAGA CTGTAACTTG TGTCATATCA TTCGTAGAAC nTTTGGAAAT	120
GAT	123
(2) INFORMATION FOR SEQ ID NO: 2767:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2767:	
GTCCGCGCCA CGGAATGGCC CACGGGACGA TAAGTGAGG CACCGACGGC CGAACCCAAG	60
(2) INFORMATION FOR SEQ ID NO: 2768:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2768:	
GTACGCGGAG CACGAATTCC GCGGATCTGG GAGCATCTCT AGGTAAnTTT	50
(2) INFORMATION FOR SEQ ID NO: 2769:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2769:	
CTTAGGTAGC TCAGTGTGTT ATTGAGAGGC CTGTTGGCAG GCCCCGGACG ATC	53
(2) INFORMATION FOR SEQ ID NO: 2770:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2770:	
AAATTGATAG CGTGCACAAA CCAGGTCCAT CCACGAACAT GCCAATCCAGCCCAGGAAGT	60
AATTGCCCG	69
(2) INFORMATION FOR SEQ ID NO: 2771:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2771:	
ACGATCATCT GGATGGATAT ACAGAACAGT GTGATTGTAC GTGGTGGGGA AA	52
(2) INFORMATION FOR SEQ ID NO: 2772:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2772:	
TTAACAGTAT GATATTATCA CACGTGAATA GGATATGCCA ACACTGGCAT CGTTGGGGAT	06
AGCGTAATAC	70
(2) INFORMATION FOR SEQ ID NO: 2773:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2773:

AACATTGTAT TCGTGATTAA GACTTCGATC GGTTCAGTAT TCGGCAGATC CACATGTGAC	60
CATGCTT	67
(2) INFORMATION FOR SEQ ID NO: 2774: (i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2774:	
CACCCTTGTG ATATCACATT TGTATGTGTT AAGAGGGAGC CCCTTTCCCG ATCAACTGGC	60
GATAAAAACA GTTGAnAAGT GGGCGGGGGT TATTATTTCT GATGACGGCG GGGTTTTTTC	120
(2) INFORMATION FOR SEQ ID NO: 2775:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2775:	
AACCGTTGCA GGTnAAGCTG GGCnCACCAT TCTTCTCTAT TAATGGTTCA	50
(2) INFORMATION FOR SEQ ID NO: 2776:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2776:	
CATGTACGGT GTCCACACAA GAAGTATTTA GGTGGTTGTT CCCGGATTTA ACCTGGC	57
(2) INFORMATION FOR SEQ ID NO: 2777:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2777:

AACGACCCCG GGTTCCACCG GGGTCCATTA AGCCAAGGGC CAGGGGACCC C	51
(2) INFORMATION FOR SEQ ID NO: 2778:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2778:	
TTGTTCCGGC CTAAAAAATT TAAATTGAAC CCAAGGGTTG CCTTGGGTTG GGTAATCCAT	60
TTTTTGAATA AACCTTTGnC CCTAATGAAT TTTTCCGCCA TTTAAGGGT GTCCGCCAAT	120
CCGG	124
(2) INFORMATION FOR SEQ ID NO: 2779:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2779:	
GTAAATTTGG GAATTACCGG AAAATTAAGG AAAGGCCAGT AAGGGGTTTC CAGGCCAA	58
(2) INFORMATION FOR SEQ ID NO: 2780:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2780:	
GCACTCCAGC CTGAGCACCA GGGTGAGACC CTGTCTCAAG AACAAAAACA nCAACAnCAA	60
AAAACTTGTT CAAAACTCAC TTCCTGCAGT AATCTTTCCT TGAACAAACT CACCCTCTAA	120
TTCCCACCTG CAATTGTGTG TAGAAATCCA TTCTCGTGTG TAATTTTGGG CTTATATGCA	180
CACATTGAAA ATCCAAGAGC CAGAAAGAGC TCTAAGGAAT TATCCAGTCC AGCTCTGTGC	240
TTTTCAGATA AGGGAACTAA GGCTTAGAGA AAGCCAGGGA CTTACCCAAG GTGGTAGCAA	300
AGCCTGGGCT AGGACCCAGA TCTTTCCCAT TTCCCTGTTC CAAAAATTTT nGGCACAGGG	360
TGGCCACCCT G	371
(2) INFORMATION FOR SEQ ID NO: 2781:	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2781:	
GGGGTTGCCA AAGGGGTGTT AAATTTAAGT CCGATGAAA TTAAGNAAAA AAATCCCATT	60
TTCCCTTCCG GGTCCGTTGT TGGGGCCTTA ATTTCCCGCC AATCCAAGTT TGGTGAATGA	120
AATTAATTAC CGT	133
(2) INFORMATION FOR SEQ ID NO: 2782:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2782:	
GTTCAAGTTG ACGCTGGATC ATCTGGTACA CACGTATCCT GCATACTATA GATGTCAT	58
(2) INFORMATION FOR SEQ ID NO: 2783:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2783:	
GCTAATTATA GGCCGTCAGG CATTACGNGA TCGAATCTGG CAACTCACAA	50
(2) INFORMATION FOR SEQ ID NO: 2784:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2784:	
GCCnCnCTCT GTGACACTGT GTATATACAC CCGCGGGAAT ATCTCCAACG	50
(2) INFORMATION FOR SEQ ID NO: 2785:	

(A) LENGTH: 133 base pairs

(A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2785:	
CTTTGTCTGA CATATTGGGG CAGTGATTTT TGGGACGGTT CTACATGTCG AGTACTTTAG	60
TCAGAGTTGT GAGTAGCGGA CGGGTnTACT TGATATACCC TTAATGTGTA T	111
(2) INFORMATION FOR SEQ ID NO: 2786:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2786:	
CATGATGATA CTTGCATGTA CGTTGTACGT GAACGTACAG TTACGTTGTC	50
(2) INFORMATION FOR SEQ ID NO: 2787:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2787:	
TCAGCAAGTA GTAAGGATAT CAAACTATGA TCTATTTGAT GTTATGCCAT AA	52
(2) INFORMATION FOR SEQ ID NO: 2788:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2788:	
GCATCATGGA ATATTAAAAC AGCTGATATG TTTGAGTAAT GATTGATTGA CGAGATATGC	60
GGCA	64
(2) INFORMATION FOR SEQ ID NO: 2789:	

(i) SEQUENCE CHARACTERISTICS:

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2789:	
TGAGAGAAGT CACAGTCGCC AGCGGCAAAG AACCCGnnAA GATGTGnGCA	5(
(2) INFORMATION FOR SEQ ID NO: 2790	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2790:	
CAGTGTATGG AATCTTGTTT GAGTGTGÆA GTCAAAGACT TGGTGATTGA ATGGAAAAAT	60
TGAA	64
(2) INFORMATION FOR SEQ ID NO: 2791:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2791:	
ACAAnGGGTG AAGTTCTCCC ACATGCTGTA TACCGTGGGA TTATTTTTAA	50
(2) INFORMATION FOR SEQ ID NO: 2792:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic ácid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2792:	
ATTCCTATTC AACAACGGAT ACATAATCTT TTATATCTTC CTTTAGTCA TATGATACTG	60
GAATAAGTGA TATTTCTTAT AAT	83
(2) INFORMATION FOR SEQ ID NO: 2793:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 64 base pairs	

(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2793:	
CATATGTCAT CGTACGTAAT CATCGATGAA ATATCAACAT CTCGACTTAA TAGGTCAACA	60
AGAT	64
(2) INFORMATION FOR SEQ ID NO: 2794:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID 100: 2794:	
CCCTACTCCG CGCAATAACC GCATTACCAG ATGCGCTTCC ACTGAGGAAC GACGGAT	57
(2) INFORMATION FOR SEQ ID NO: 2795:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2795:	
AGATAAAGTG TCATCTATAT CCATCTATCA ATATAGATAT GTTTACGGCC GATTTCAATC	60
CGCAA	65
(2) INFORMATION FOR SEQ ID NO: 2796:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2796:	
TATACGCCTC ATTACACCCA ATTGGACCCT TTACGTATGG AGTACATTAT AGAATCGA	58
(2) INFORMATION FOR SEQ ID NO: 2797:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	

(B) TYPE: nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2797:	
ngctaagaat ttataagagg tttcggcaga tatatatacg caagtatctg	50
(2) INFORMATION FOR SEQ ID NO: 2798:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2798:	
AAGCAGTCTT TCACAAAAAG TGAATAATCA CTAGTTCATT AATTTGCATT TGAACCTTCA	60
TATAATGCAT ATTACTTAAT GTÆAAGCAA AGATGTATTT ACCTATCAAA GAATTTnC	118
(2) INFORMATION FOR SEQ ID NO: 2799:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2799:	
CCATAGAACC TGTGAATACC TATACATATC ATACTGTGGA ATTCGTTACG AGG	53
(2) INFORMATION FOR SEQ ID NO: 2800:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2800:	
CCAATTCAGA CTGTTATTCT CTCTTCGTGA TAACCCGTGA TGTTTGTCTG C	51
(2) INFORMATION FOR SEQ ID NO: 2801:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2801:	
GGGGGnGCAT ACCGCACCGA AGCATCAGAC GATGTAGCG ACCTACCTCC	50
(2) INFORMATION FOR SEQ ID NO: 2802:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2802:	
CCGTAGCGCA CATATGACGA GACCAAGGAT AACGTGCAAn GnCATATTGT	50
(2) INFORMATION FOR SEQ ID NO: 2803:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2803:	
CACGTCATGA ACGTGCATTC AACACAATCA TTTACGAGAT GGACCAAGAC	50
(2) INFORMATION FOR SEQ ID NO: 2804:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2804:	
TATGGTGTTT ATTTTAGCGC TnGTTGTGCT TTGTCTTCAG CATCTMAAC CTAGTGCGAT	60
GGCCTGTAGT ATGGCCACTT TTGTAATGCT CTTCAGTTGA AGTCCTGGTT GAAAGTATCA	120
CTATTG	126
(2) INFORMATION FOR SEQ ID NO: 2805:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2805:	
AAAAGCGCAT ATGGTGTTTT TCTCATATCA CTCCAGGACT CAGCAGCTGG AAGGAGTTAA	Œ
GAAGTAATAA GGTGCCACCC TAAATCCA	88
(2) INFORMATION FOR SEQ ID NO: 2806:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2806:	
TGGATCCGGT ACCAAATAGG GACTACCGGG AATGTCCCGG GGGGCCTAAT GCCGAATGGG	60
GCAACG	66
(2) INFORMATION FOR SEQ ID NO: 2807:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2807:	
CCCGCTAACG TGGCGAAAGT TTTGAAGTTA AGAAGGAATG GATTCCTAAC GGGGCGGGGT	60
CCAAAC	66
(2) INFORMATION FOR SEQ ID NO: 2808:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2808:	
ACAAAGCAGT ACTGAACTGG TTTCGTTGGA GCCCGTGTTG CTGTTTATTC ACGGCA	56
(2) INFORMATION FOR SEQ ID NO: 2809:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2809:	
AGGGGGCGTA CAACATAGAT TTGCGAGATA CTCAGCATTA CACTTCCATT TAACTTATTA	60
TCC	63
(2) INFORMATION FOR SEQ ID NO: 2810:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810:	
TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG	58
(2) INFORMATION FOR SEQ ID NO: 2811:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811:	
AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGAA AGGCCAAT	58
(2) INFORMATION FOR SEQ ID NO: 2812:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2812:	
CATCATTAAG GCAAAAACTT TCACAAAGTC ATGAGGCGCA AAAGGTATTA TTATAACACA	60
TCCCGCGTTG GG	72
(2) INFORMATION FOR SEQ ID NO: 2813:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2813:	
CCATTTAAAG CGGTACGGGG CTTGGTTCAG GAACGTCGTT AGACAAATTC GGT	53
(2) INFORMATION FOR SEQ ID NO: 2814:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 2814:	
TAGTACCCAA TTTCCAGTCG AACCAGGATG GGACCAGAAG CCAAACCAAC GTT	53
(2) INFORMATION FOR SEQ ID NO: 2815:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2815:	
GAAAAAAGG CCTTGTTTAC CAAAGGGGCC AATTTTTTCG GTTCAAGGTC CAAACCTACC	60
TT	62
(2) INFORMATION FOR SEQ ID NO: 2816:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2816:	
TCTGAATGAC GCCGAAATCC CATCTGAATT CATGGGATTT TCCACTTTCA	50
(2) INFORMATION FOR SEQ ID NO: 2817:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2817:

CGTTACTAAA GCTACATAGT GCGTCATTTA AGATTATAGC AAGTAGCATA T	51
(2) INFORMATION FOR SEQ ID NO: 2818:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2818:	
CATTCACCAT AATATTCATT GTTCCATTAG CATATCAGGC ATGTCACGTG CACA	54
(2) INFORMATION FOR SEQID NO: 2819:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2819:	
GTGTATCAAA TGAGCATGTT nCAATGGTTC AnCATGGCGT TTATGGCACT	50
(2) INFORMATION FOR SEQ ID NO: 2820:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2820:	
ACAATTGCGG CTGCTCATTG TGAGCACGAC TTTATCATGG TTGGGTTCAG	50
(2) INFORMATION FOR SEQ ID NO: 2821:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2821:	
CAGTAGTACG TAAAAATGAA TCACTTGAAG ATGCGTACGT AGATTTTAAA CGTCAGTTCT	60
AAAAAGTGGA CAATCCAAGA GACGTAACGG AATTnCGAA AA	102
(2) INFORMATION FOR SEQ ID NO: 2822:	

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2822:	
GAGTACTTAA TCCGGCACCG TTTACTTCTG GGGGCATCGA CTAAGTGGGG CGGCC	55
(2) INFORMATION FOR SEQ ID NO: 2823:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2823:	
ATTGGTTTCT CATAAACACT TTTCTATGAA TTTGTATGTA TTTGTTTATT AAAATCTCTA	60
ATTCTTATGG A	71
(2) INFORMATION FOR SEQ ID NO: 2824:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2824:	
CCATTGAGTG TGAGTATATC ATCGATCAAT ATGCAACATT TATCAGGTGC ATGTTGCTTA	60
TGGTAATCAG ATGGATATAT CATCGTATCA TTTGTACTGT nCAACAAACG CCCATATGTA	120
TGGATAATTG AACA	134
(2) INFORMATION FOR SEQ ID NO: 2825:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 285:	

(A) LENGTH: 55 base pairs

57

CCAGAATGAT GAGCTACAGG ATCAGCCCAG ATATGCAGGT AAACGGGCCA ACCATTG

(2) INFORMATION FOR SEQ ID NO: 2826:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2826:	
CAATAATGCT GAACAGCAAC GCATCTCATT CTAAAATCGC TCAGAATCAC ATCCCATGCA	60
CACATAATAA GTGGCACTTA GCTTAAAAT	89
(2) INFORMATION FOR SEQ ID NO: 2827:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2827:	
CGGATTAGTG GTGTAAACTG GGTGACCCAT ACCACACCTC GCGTGTTGTG AAAAAAGGAC	60
TTAA	64
(2) INFORMATION FOR SEQ ID NO: 2828:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2828:	
TATACAGAAA ACAGCGTGCC GTTATCCATT ATCACATGAC ATATGTAGTC C	51
(2) INFORMATION FOR SEQ ID NO: 2829:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2829:	
GAGATACGGT CTTCGTATAT GATATGTGCA TATTTAGATA GTCATTTATG AGAGAACGTG	60
GACGTGAG	68

(2) INFORMATION FOR SEQ ID NO: 2830:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2830: TGATGATTGT TTATGATACG ATATGTAAAT GATAATCATC CAGGAGGTCT AGCATGGT	58
(2) INFORMATION FOR SEQ ID NO: 2831:	30
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2831:	
CCTAACAAAC ATAATTAAAC CCATAAATGC ATCCAATGCG GTTAACCAT GAAA	54
(2) INFORMATION FOR SEQ ID NO: 2832:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2832:	
CAATAAAAAA CTACACGAAT TTTGGCGTAC TCnCTTCGCA CCAACGCATC	50
(2) INFORMATION FOR SEQ ID NO: 2833:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2833:	
GTCTGCTACC CTTTCAGAGC AACATGCTGA GTGTATAATG CCGTGTATAG GGGACAATGC	60
CATTCACTA	69

(2) INFORMATION FOR SEQ ID NO: 2834:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	,
(xi) SEQUENCE DESCRIPTION: SEQID NO: 2834:	
AACACCAGCT GGTAAGTATC ACGTTACATT TTGTGTCTTC ATGATTAATA AAAAC	55
(2) INFORMATION FOR SEQ ID NO: 2835:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2835:	
AGAGCTTGGA TGTCGTTCGT AATTGATGCT CTAGCTCCAT GGGGCCCATG	50
(2) INFORMATION FOR SEQ ID NO: 2836:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 138 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2836:	
TTTCGTCACT ATTGCTCATG CATAGACATT TGCAATACCG GCAAATGACG ATGGNATATG	60
TGCAATGATG TCCCAGTCCG CTAAATCCAT AGGTATATGA CAACCTGGGG AGATGTGCCT	120
TTAATGGTCA ATACAGGG	138
(2) INFORMATION FOR SEQ ID NO: 2837:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2837:	
GTTGGCAACT TCAGTCGCTA CTTTAACGCA TCTCACAGTC CTCCTCCCAA AGAGAACGTA	60
T	61

(A) LENGTH: 55 base pairs

(2) INFORMATION FOR SEQ ID NO: 2838:

(A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: lineæ	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2838:	
ACGTGAATCC CGTGAGGCCA ACAGTGATTT GGATAATTAC ATGGATGTTT GACTAATGGT	60
CATTCACACC CAGATCAG	78
(2) INFORMATION FOR SEQ ID NO: 2839:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 90 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2839:	
ACTTAAAATC TCCTCTTGCC TAACTTCCAC ATTCTTATCGATATGAATAC ACCATACGTT	60
TTATAGATAA GTTGATGTTG ATGCATATGT	90
(2) INFORMATION FOR SEQ ID NO: 2840:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2840:	
TATATTTAGT CTGTTATACA AGGTGTATCA CAGCGGTAAT ATGCCTCTAC ATGGCCATAT	60
G	61
(2) INFORMATION FOR SEQ ID NO: 2841:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQID NO: 2841:	
GGGCCCCGGC GGCAGGGAGG AAGGGGGCCAA GGGCGCCC AAGACCACGA CCGGCACC	58

(2)	INFORMATION FOR SEQ ID NO: 2842:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNES: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2842:	
TGT	ACAGGTG CAGTTAGACC GCCTGACGGA ACGAGACGTG CAATTGCCAG CAACGCACAA	60
(2)	INFORMATION FOR SEQ ID NO: 2843:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2843:	
AAA	CATGTGA AGTGATCGAG GTATGGACGG AGTAATGATC GCACAAGACA TAGCATCCCC	60
GT		62
(2)	INFORMATION FOR SEQ ID NO: 2844:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2844:	
ACG	ATTTAGT TTGAATTTCT ATTAGGGTTT GGTGATTCTA CTACTTCTGA TA	52
(2)	INFORMATION FOR SEQ ID NO: 2845:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2845:	
GAT	PATCACA ATTATGCAAA GTTGTCTAAT CGTTAGACCA ATTTCTGTTC AAACACCACA	60
ATC		63
(2)	INFORMATION FOR SEQ ID NO: 2846:	

(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2846:	
CGTTATATAA GAnCGACATG GAAGCATGAT GAAATATTGA ATACATCATA	50
(2) INFORMATION FOR SEQ ID NO: 2847:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2847:	
CCACAGGTGC ATCCGCCTGG TATGGAGCCG GCCAGTCTTC ACTGCTTTCA C	51
(2) INFORMATION FOR SEQ ID NO: 2848:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2848:	
AAAACTGTCC CAAGCTGTTT TTATTTAGAG GACCAATCC AATTTAAACC CCCCACCATT	60
ATTTTAAATA ATACCATTCC AGCGAAAGCC CTTTCCAnGG TTTTGGAATA TAA	113
(2) INFORMATION FOR SEQ ID NO: 2849:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 155 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2849:	
CATCTGGAAC TTTTTAATTC CAGAAGGGTT CCAGAAGGTT TCGAAATCCC TCCTAATGGG	60
CTCCATTAAC GGATTTTAAA TTTTTTAATA ATTTTAGGCC AAAAAATTAA TTCCAGGAA	120

(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid

155

AAGTAAGTTT CCAACCCGGG TAAGAAATTA CCnAA

(2) INFORMATION FOR SEQ ID NO: 2850:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2850:	
CACAAACTAA CATAGAAGGG CCATCATCAG GTGCTATTAA ATATCTACGC TAGATTGTAA	60
ATCA	64
(2) INFORMATION FOR SEQ ID NO: 2851:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2851:	
AATTATTCAT CAATAGCTCT TTACGATTCA CAAATCTAGG TACTTTTCAG ATCT	5 4
(2) INFORMATION FOR SEQ ID NO: 2852:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2852:	
AAGCCCCTTT AAACTGGGCC TTTAAGGAAC GGTGGCGAAA ATCCCCAAAT TCCGGGCA	58
(2) INFORMATION FOR SEQ ID NO: 2853:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2853:	
AAAGGTTTCC ATTCGGTCCC ATTAAGATTT TTTTGGAAAT TCCATGGAAG GATGGTTGGT	60
CCTTTAGGCC TGGTAGGTTA TCCTTTTTGn AGGTGGTATC CAG	103
(2) INFORMATION FOR SEQ ID NO: 2854:	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2854:	
GGCCACGGTC ATTCCTCCAA GCCAACCAGT GGACAAGATG GGTGGAAGGC GCAGG	5.5
(2) INFORMATION FOR SEQ ID NO: 2855:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2855:	
TATTTGGCAT TCAAATAACG TAAACGGATT TTGAAGTAAT TTACATAAAG AGG	53
(2) INFORMATION FOR SEQ ID NO: 286:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2856:	
ACAATTTGAC AATGACTGGG ATGCTGACAC TTGATATGAA GACAATTGAA GAT	53
(2) INFORMATION FOR SEQ ID NO: 2857:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2857:	
AACTGCGTTA CATGCTTTGC TTTTAACTGA ACCCAGAACA ACGGTTTCGG	50
(2) INFORMATION FOR SEQ ID NO: 2858:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 55 base pairs

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2858: 50 CTTTnnTAnC TTCATCTCTA TTATTATTGT CCGAATTACT ACGTGGACAA (2) INFORMATION FOR SEQ ID NO: 2859: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2859: TCCAGGTCGA ATTTATTGCC AATTAGCCTC CCGGGTTAAA AGGGTGGGTG TCGGGTAAAA 60 TCGTAC 66 (2) INFORMATION FOR SEQ ID NO: 2860: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2860: GGTATCCAGT CCCCGGAGG GGTGACAAAC TTCCACGCCC AGTGGGGGGA CTACCGTTTT 60 GGACCAAAGC CC 72 (2) INFORMATION FOR SEQ ID NO: 2861: (i) SEOUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2861: AGTGTCGAAC AATTAAAGAT ATTGAGTGAC AGGATTGCTT AAGGGCCGGT CGGAACAG 58 (2) INFORMATION FOR SEQ ID NO: 2862: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs

(D) TOPOLOGY: linear

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2862:	
TTAGCGGTAA ATCCGAAGAA CTAAGAAGAC GTCAAGAAGG GGATATACGC	50
(2) INFORMATION FOR SEQ ID NO: 2863:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2863:	
GCAAAANTGA GAGCTCAANC TGCANNAAGC AAATCAACGA AAGATTAGGT	50
(2) INFORMATION FOR SEQ ID NO: 2864:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:	
ACCGGCACAA CCATCGGATC AGGCTTTGGC TCAACAATGA TGATAACGCG ATGAAAAGAA	60
AACTATTCTG GATTTGTGCA GTGGCTATGG GGATGAGTGC GTTCCCCTCT TTCATGACGC	120
AGGCGAACGC CAGCAACGCA ACCACTGATC AATGCTGAGC CAGCTGTAGC CGCCCAGACG	180
GAACAAAATC CGCAGTGGGG ŒAAGTGATG CCGGGCGTGC ANGGCGCTGA TGnCAGTTCG	240
TGGCAG	246
(2) INFORMATION FOR SEQ ID NO: 2865:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2865:	
ACAGATGATA CCTCTTGATC ACTTGCCAGA GATCGTCTAA GTCGTCCTTG	50
(2) INFORMATION FOR SEQ ID NO: 2866:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs	

(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2866:	
AATACCACGC TGACCTTAAT AAGCCATCAT GGGGGAAAC ATGACCGCAA T	51
(2) INFORMATION FOR SEQ ID NO: 2867:	,
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2867:	
CAACTTGGTA AGTGGTCGTT TTGGGCCCCA CCCTACCCGT TTGGACCTGG	50
(2) INFORMATION FOR SEQ ID NO: 2868:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic add (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2868:	
CCCAACCGG TTCCGGGCCT TAATTTTTTn CCTTTTAAAG GAAAAAAAGG AAAAACCGGT	60
TAATTCCGGC CCAAAAAnCC CGGAAGTTGG AAACCTTTTT TTAATAAAAA TAAGGACCG	120
TCCCAACCTT TGTTGCCAAA AGGTGGCCTA AAGGTTTAAA AAAAACCGTT AAAATCCATG	180
GCCAGGATCC AGCCTAAAAT TGAAACCATT ATAATTGATA AAC	223
(2) INFORMATION FOR SEQ ID NO: 2869:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2869:	
TGGACCTTTG GTAATATGAA TTGAATGGTG CTTTGTGGAA ATCGGGAATT CGCCTCGTGC	60
CTTGTA	66
(2) INFORMATION FOR SEQ ID NO: 2870:	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2870:	
AAnAGCCAng ATCATGGTAT ATCCATTAAG AGACGAGAAG ATCGATGCCC	50
(2) INFORMATION FOR SEQ ID NO: 2871:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2871:	
TTATTTGGAC TTACAAGGAG AATAGTCAnT TCTAGGAAAG TGGTGCGAAA GTCACTTACC	60
AATATACGGG GATTATTCAT CCATCGTCGG TCGGTCATAT GATACGGAAT TAACACGCCA	120
CTCCG	125
(2) INFORMATION FOR SEQ ID NO: 2872:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2872:	
CAACACCTGA CGTGTATAGA ACTCATCTCT TCAATAACGT CGCTGTCAGG TTACGAAGTC	60
GA	62
(2) INFORMATION FOR SEQ ID NO: 2873:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2873:	

(A) LENGTH: 50 base pairs

54

TATACATTCC ATTTAACACC TTAACACATG CAAGTTACTT CCTCCTCAAG CATC

(2) INFORMATION FOR SEQ ID NO: 2874:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2874:	
GCTGAAAGGA GACTTCTGCA GGTGTGATCA CAAACTGCAC ATCTACACAA GCCATT	56
(2) INFORMATION FOR SEQ ID NO: 2875:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2875:	
AGCGCGACCG CGAGAAGGGA GGGGGAGCCA GAGCAGCAGC AGGCCCCAGG GGAAACCCC	60
CAAGAGGAGC GAGNAAGAAG GAGGGAAAGC CCAGCAGGGG CGCCCAGGCC AG	112
(2) INFORMATION FOR SEQ ID NO: 2876:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2876:	
GnGCGTTnnA nCGGTCGCGT AGAGATGTCG GGTCTGTAGT AGATCTGGGG	50
(2) INFORMATION FOR SEQ ID NO: 2877:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2877:	
ACCTTGACTT TGCAGACGAT GATGCTTTTG GCTGGGATCT TCACCATCTG GCAACTGAAT	60
ATGGTTGG	68

(2) INFORMATION FOR SEQ ID NO: 2878:

(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2878:	
CTCCACCTGA TGCATGCCCC CATATCAGGA AAATGATAAC CTCGGACACC TTC	53
(2) INFORMATION FOR SEQ ID NO: 2879:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 75 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2879:	
GGGAACTTTG ATCTGCCCTT GAAATCCTGA AAAATGTTTG CAAACGGGAA TGATCTTGTG	60
CCTTGCTTTG AATGA	75
(2) INFORMATION FOR SEQ ID NO: 2880:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2880:	
AGAGAGGCCG AGATGGCAGA TGAGATTGCC AAGGCTCAGG TCGCTCGGCC TGGTGGCGAC	60
ACGATCTTCG GGAAGATCAT CCGCAAGAAA TACCAGCCAA AATCATTTTT GAGGATGACC	120
GGTGCCTTGC TTTCCATGAC ATTTCCCCTC AAGCACAAC ACATTTTCTG GTGATACCCA	180
AGAAACATAT ATCCCAGATT TCTGTGGCAG AAGATGATGA TGAAAGTCTT CTTGGACACT	240
TAATGATTGT TGGCAAGAAA TGTGCTGCGG ATCTGGGCCT GAATAAGGTT ATCGAnGGTG	300
GTGAnTGAAG TTCAGnGGTG GACATCCGTC TATCACGTTC A	341
(2) INFORMATION FOR SEQ ID NO: 2881:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQID NO: 2881:	
GCGGTTACTG TGTAATGGCA TTAAATATGA AACGAGCCGA TGGAGCGTTG	50
(2) INFORMATION FOR SEQ ID NO: 2882:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2882:	
CTCATCATTT GTAGTTGGAA AGGTTTATGT ACATTTGGAA AACACCGACA CATGACGTAT	60
CTCCATTGCA ATTTACACAA G	81
(2) INFORMATION FOR SEQ ID NO: 2883:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2883:	
TTTTTTTTT TTTTTTTTT TTTTTTTTT TTTTTTTT	60
TTTTTTTTT TTTTTTT	77
(2) INFORMATION FOR SEQ ID NO: 2884:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2884:	
ACGGTGTGCT TGATGCACTT GGAACTGTGA GTTTGGGTGT GACTTTGCTT TGGCTTGCTT	60
GCTGAATGTT TTGACTATGC ATT©GTATA TGACTTGnAG CGCG	104
(2) INFORMATION FOR SEQ ID NO: 2885:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2885:	
AGCAACGTGT CTGTCAACGT GGTGTCATTG GAAAAGGCGT CATGTATTGn CCGGTGGGAT	60
TTACGTGTAG TCACACATGT GCCCAATTAT TGTTTTGAGG CCAACTTGAG TAGGTTGATG	120
GTTATGT	127
(2) INFORMATION FOR SEQ ID NO: 2886:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENŒ DESCRIPTION: SEQ ID NO: 2886:	
TGAGCGAGTG CTGTGTGAGC GCGAGGTTGT GAGAGTTAGA ACCTTGTGAG C	51
(2) INFORMATION FOR SEQ ID NO: 2887:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2887:	
TTGAAACCGC GAACCTGAGT TCTGGTTAAC TACAGTCTGG TATACACATT GAGGGAAACT	60
TCG	63
(2) INFORMATION FOR SEQ ID NO: 2888:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQID NO: 2888:	
AGTANCATAC NCAACTATCT CAGCATACAA TATTGGNCAC CTCGCAGCTT	50
(2) INFORMATION FOR SEQ ID NO: 2889:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 115 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2889:	
AAAnATAATC CCGGTTTTAT CCCCCTACCT AATTAGTGGG AAAAGTACCA ATTGCCAATT	60
GGTAAAATAG GTTGCCATAA CGGCCTCCCA AAAGTAAATT CCCTTTTTTG GTTTA	115
(2) INFORMATION FOR SEQ ID NO: 2890:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2890:	
AATCGGTCCG TTATACTCTT CATAATATTG TGGCGCAACC ATTTCAACTT TATCTTTCT	60
TATAAATAGC ATCATCGCAA TAnTAAAGAA TAATATCGGA ATGATTAAAG TAACGATAAG	120
TAAAACTAAA GGAATCGTTA CAATTGC	147
(2) INFORMATION FOR SEQ ID NO 2891:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2891:	
AACACAACAA GTTGTTAAAG ATGCATTTTT ATCACAACAT AAATCTATTG GACGTAAAGC	60
TCAAGAAGCA TACTTATCAT ATCGTTTAGA ACAAGAGTAT AGTAAAGATG ATATCTTCCA	120
AGTATATCTA AACAAAATTT ACTATTCTGA TGGCGTAACA GGTATTAAAG CTGCTGCTAA	180
GTATTACTTT AATAAAGATT TAAAAGATTT AAACTTAGCG GAAGAAGTT ATTTAGCCGG	240
TTTACCTCAG GTTCCAAACA ACTATAATAT TTATGATCAT CCAAAAGCTG CTGAAGATCG	300
TAAAAnCACT GTTTTATACT TAATGCATTA TCATAAACGC ATTACAGATA AACAGTGGGA	360
AGATGCTAAG AAAATCGATT TAAAAGCGAA CTTAGTAAAT	400
(2) INFORMATION FOR SEQ ID NO: 2892:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2892	
CCTAATTAAA CCTCCATCCA TCCTTTTGAA GGGGGATCTT TAATAAAnCC GGAAAGTTTG	60
GGGGAAAAAT CCTCCATCCT TTGAAGGGGG GGGCTTTCCA ATGGCCTTTA AGAATGGCCT	120
TTTCCAAGCC AACTTTTAAT TCCCCCGGT	149
(2) INFORMATION FOR SEQ ID NO: 2893:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2893:	
GCCCGAAGTA TTCTTGTAAG TATTATGATA CTCGGTnCTT TTTATGATTT ATGTTAATTT	60
CAATGGAAGT TGTGGCTACT AATTAAACAA CTAGTGTCAT TAACAAAATG TAGTCTTTAA	120
TTATGTTAGT	130
(2) INFORMATION FOR SEQ ID NO: 2894:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2894:	
GATGAGACCT GAATTGATTG CAACCCAAAT CGGCATATC AAATTGCATT AAAGTTGGTT	60
CAACG	65
(2) INFORMATION FOR SEQ ID NO: 2895:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2895:	
CGCACAACAC ATTTAGCGAC TCAGATGTCG CGCGAATGGA CCGATATGGC GTGTCTACAC	60
ATTGTCATAT TGTACGAATA GATGAGAAAT TnCAAAGACC GA	102

(2) INFORMATION FOR SEQ ID NO: 2896:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: £Q ID NO: 2896:	
ATTAAGTGAT GGGCTAATGT TTACGCCCCA ACCAAAGGTT TCCAAAGAGC CCTTGTTGGG	60
CCTGTGTTG	69
(2) INFORMATION FOR SEQ ID NO: 2897:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 80 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2897:	
ATTGAATTAA TGTCCCAACC AAACGAATGG TTGCCCTTTT TCCATCCAAA GGGGGCTAAT	60
TGGGAAGGGT ATTGGTTCCC	80
(2) INFORMATION FOR SEQ ID NO: 2898:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2898:	
CAAATCCTGG AGATGAGCGT AACCAAAAAT AACGTTGAGA AAATGACCAC ACA	53
(2) INFORMATION FOR SEQ ID NO: 2899:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2899:	
ATCGTGAACC TCTCATCCAA TCACTCATGT GAGTGAATTG GATGACCTGA A	51
(2) INFORMATION FOR SEQID NO: 2900:	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2900:	
AGCTTTCAGG GCTATATCAG ACCCACGCAT TCATCCACGT GAATGAAACA CG	52
(2) INFORMATION FOR SEQ ID NO: 2901:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2901:	
GGTACTGACA GAGGGACAAG GTGGAAAGGN TGCCAATGTA AGAATACGGT	50
(2) INFORMATION FOR SEQ ID NO: 2902:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2902:	
TGTCTGGAAT TCAGGTGAAT TGATGCGGAG ATTTAGGTGA TTAAGGAGTG TTGATTATGA	60
AGATGACCAC TT	72
(2) INFORMATION FOR SEQ ID NO: 2903:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2903:	
CATGCCAAAG CAGTAGGCAA GCCGCTTAGC AAGCCAAAAA CGTCAGCCCA	50
(2) INFORMATION FOR SEQ ID NO: 2904:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 58 base pairs	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 52 base pairs

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2904:	
TTGATGTTAC CTGATCGCAA TCTTGACCAC CTGGCAGGGT CTCATTGTTG GGTATCGA	58
(2) INFORMATION FOR SEQ ID NO: 2905:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2905:	
ACCATCCGGT ATGGCACCTG TCATATTTGC AAAACAATAA ACGGTGCCT GCTACTGGTT	60
GCGGTCTAT	69
(2) INFORMATION FOR SEQ ID NO: 2906:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2906:	
ATTCCATTAG GTTCAATTAA AAATTAACGG GGTTATGGTT CCGGTAATTC GGG	53
(2) INFORMATION FOR SEQ ID NO: 2907:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2907:	
AAAGCTAAGA AAGGAGGATT AGCTGGTAGT GGAGGAATGT TAAGTGAGGC TGGTGAT	57
(2) INFORMATION FOR SEQ ID NO: 2908:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(B) TYPE: nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ D NO: 2908:	
GGGAATGGCG CATGAACGTG CACATCAAAT GACACTGCAG GAAATCAATT AGCACGGATA	60
TGGCATAAAG ACAATGGTAA AAGTGG	86
(2) INFORMATION FOR SEQ ID NO: 2909:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2909:	
CGAGCAACTC AAGATTAGAA AAGTAGAAAA AGCCATTAnT CATATGTTTT	50
(2) INFORMATION FOR SEQ ID NO: 2910:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2910:	
GAATTTGTTC CGAGGTATCG AGGACTACGC TTATAAGGTG CTTACAGATA CATTTAnCAT	60
TAATGGCGTG TGCTGCTGTA TGGGTTATAC TGTTCACAGG TTTAAGAGA	109
(2) INFORMATION FOR SEQ ID NO: 2911:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2911:	
TTGTCCCCAT AGGGAGAAAT AATTCCGCCT GGGCAAAACC AAATCCACGA GCTTCTAAGG	60
(2) INFORMATION FOR SEQ ID NO: 2912:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2912:	
TAGATGTATC CAGCTGACAT TAGCTATTGG TAAGGTAACG GCTTACCAGG CAACG	55
(2) INFORMATION FOR SEQ ID NO: 2913:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2913:	
GCCATGAGGC CCACCCATCC ATGTTTATGG ATGGTGGATT GGGGAATTAC TTGTTTCAAA	60
AAATCCATAT TTAATACCCC TnGGGAGGGA ATTTTACCCT ACCTAAAATA TTTGACCCCA	120
TCA .	123
(2) INFORMATION FOR SEQ ID NO: 2914:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2914:	
ATCCGTAATT CTGGCCTACC AAGGGTTTAG GCCAATGGGC CATTCTTTTA TTTAACCC	58
(2) INFORMATION FOR SEQ ID NO: 2915:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2915:	
TGGTGCGACA GTGGTAGGCT TTTTACGGTn TGCnGGCGAG AGTTCTGTAG	50
(2) INFORMATION FOR SEQ ID NO: 2916:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2916:	
CTGTTACGCT ATGCCCCCCA GTTGTATGTT GAGTGGAATC GTGTTTTTCG ACTGCCTTT	60
GCTTTTTT	68
(2) INFORMATION FOR SEQ ID NO: 2917:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2917:	
CCTTTTGGGG CCAACCTTGG GTCCCCGTTT CCGGTTTTTT TTAACCAAAA CGGTTCCGGT	60
GGAAA	65
(2) INFORMATION FOR SEQ ID NO: 2918:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 101 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2918:	
AAATTCCAAT CCTGGGAATG GGATTCCATG GTnTTCGGAA AAATCCGCCA CCCCAAAAAA	60
ATAAATGGGT CCCTTCCCTT GGAAATATTA CCTTTACCAG G	101
(2) INFORMATION FOR SEQ ID NO: 2919:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 75 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2919:	
TAATAAATCC ATGACCACCG TCACGACGAT CTGACTGATA AACTAATGAC ATATGACTGG	60
TGTACACACC GTATG	75
(2) INFORMATION FOR SEQ ID NO: 2920:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2920:	
CTTGGATTGA CCATCATTAG TTTTGGTCAC TCTAAGTTGT ACTGTCCGTT GTACAA	5 6
(2) INFORMATION FOR SEQ ID NO: 2921:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2921:	
GCTCATTGCT TGTATATTAA TCCCTGAAAT TGACCGTGTA TATCCCGTCG ATCTATCTTG	60
TCCTG	65
(2) INFORMATION FOR SEQ ID NO: 2922:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2922:	
GCAATATTCT AATCTGTATG TTACAGCACA TGGATATAGC ACATCCGGGC	50
(2) INFORMATION FOR SEQ ID NO: 2923:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic æid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2923:	
TGTGATTTAA CAGGATTACA CAGGTGTACC AGCCGATAGT TGATTAAGCT TCTT	5 4
(2) INFORMATION FOR SEQ ID NO: 2924:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2924:	
ATCCTGGGAA GTGCTGAAAA ACCACTnCAC TAAAGGCATA GGAnCCAAC	50
(2) INFORMATION FOR SEQ ID NO: 2925:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2925:	
TATTAAAAGG GATGTTAAAT TTGGGGAGGA TACCAAGGTC TCAATGCCAG AA	52
(2) INFORMATION FOR SEQ ID NO: 2926:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2926:	
TTGGTCACAT TTATTCTCGT GTTGTGCCGT TCTTCTTCAG TACTAAAGAC AAGGTGATTC	60
GG	62
(2) INFORMATION FOR SEQ ID NO: 2927:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 2927:	
CAAAAGGCTA TCCCACCTGA TTTGCAAAAG GAACTGGACT GCAAGGGAAG TCTCAG	56
(2) INFORMATION FOR SEQ ID NO: 2928:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2928:

TGATCTTGCT	ATTTAGTTGC	GGCTTGGATT	CATTTGGCAT	GGTTAAGATT	AAATTAGATG	60
CTTCATTCAT	TCAAGATTTC	TTCATGTTAG	CATTCTTTAC	GACAATCGGT	CTTGGTGCAT	120
CATTGAAATT	ATTTAAATTA	GGTGGCAAAG	TCTTGCTATT	ATACTTTATG	TTTTGTGCTA	180
TCATTTCAGT	CATTCAAAAC	ATAGTTGGTG	TATCACTAGC	AAAAGTATTA	AATATTAAAC	240
CTTTGTTAGG	ATTAACAGCA	GGTTCCATGT	CTATGGAAGG	CGGTCATGGT	AATGCTGCTG	300
CTTATGGTAA	GACAATTCAA	GATTTAGGTA	TTGATTGGC .	ACTGACAGCG	GCTCTTGCAG	360
CTGCAACTTT	AGGTCTTGTA	TTTGGAGGGC	TATCGGTGGT			400

(2) INFORMATION FOR SEQ ID NO: 2929:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2929:

CTGAACCGAT	GGCGCACTTT	GCTACGCCAC	CTACAGCAGA	TCCCAnGGGG	GGnGAAGCTT	60
ATACTGAAGC	TCTACGTTCA	ACATTTTTCC	ATTGGGGATT	CCATGCTTGG	GCTGTTATG	120
G T GTTGTT G C	GTTACGTTTG	GCATATTCGC	AATTCCGTAA	AGGTGAACCA	GGTTTATTAT	180
CTAGAACTTT	ACGTCCTCTT	TTAGGTGATA	AAGTAGAAGG	TCCTATTGGG	ATTTTTATTG	240
ACGTTTTATC	TGTATTTGCG	ACAATCGTTG	GGGTAGCCGT	TTCGTTAGGT	ATGGGTGCTC	300
TACAAATTAA	TGGTGGTTTA	CATTACTTGT	TCAATGTTCC	AAACAATACG	TTTGTACAAG	360
CGATTATCAT	CATTGTTGTT	ACTATCTTAT	TTATAGCAAG			400

(2) INFORMATION FOR SEQ ID NO: 2930:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2930:

ATGTAGATCT ATATGATGAC TTTTTACAAG ATCCATCATC TGTACCAGAA GATTTAAAGT 60

CTTATTCAGC ACAATTAAGA ATGATGACTC AÆTGTACCA GCTTTAAAAA GTACAAGTAG 120

TCAnAATAGC GACGGCACAA TTAAGCGTGT CATGCGTTTA ATTGATAATA TTCGCCAATA 180

CGGGCATCTT AAAGCCGATA TTTATCCTGT AAATCCTCCA AAAAGGAAAC ATGTACCTAA 240

ATTAGAGATT GAAGACTTTG ATTTAGATCA ACAGACTTTG GAAGGTATAT CAGCAGCÆT 300

TGTTTCAGAT CACTTTGCCG ACATTTATGA TAATGCCTAT GANGCAATTT TAAGAATGGA	360
AAAACGTTAC AAAGGnCCAT TGCATTTGAG TATACCnTAT	400
(2) INFORMATION FOR SEQ ID NO: 2931:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2931:	
GGTTATACAA TCTAGAATCG CATGATAATT TAATGCTACA AATCGATAGT ACAATATATC	60
TACCGTGAAT AACTGTGCAA ATAGTGACGT TGTAGCCGCC ATACGCATTT CATTTTCATC	120
AGTTCTGCCA TAAATCAATG CATAGTCTGC AATTTGAGCC ACTGGATTAT TAGCTGTACT	180
AGATATAGTT ATGATGGGAA TACTGTAATG TGTGGCCACC TGTGCAATTG ACTGCAATTC	240
ACTATGGACT ACCTTGGATT CGTCACAAAA ATCAGCAAT CTCTATCATC ATGCGTCGCA	300
AATGTTGACA CAAGTGAAAT GCGTTTCCAT GTAATAACCT GACATTTGAA GCCATACGAG	360
ATAACTTTGG AAAAAGATCA CCAATAGnCC AACTCGATGG	400
(2) INFORMATION FOR SEQ ID NO: 2932:	
 (i) SEQUENCE CHARACTERSTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2932:	
CTTTCAGTAG CAGCTACAAT TGTCTTTAAC ATTTAAGTTT AAAGCTGTAT GTGTAACCG	60
CAAATACCGA TAGCCATTCA CTAATGAAGT TTCAACTAAT TTAGTACGAT CTGACAATAA	120
CTTTTTGTAA TCTTGGGCTG CTTCAGCTGA TACAGCAATA TTTCTCATTG TTTTAACAGC	180
TTCTTCAGGA TATAAACCAG CAGCAGTTTC ACCAGATAAC ATTACTGCAT CTGTACCATC	240
ATAGATTGCG TTGGCAACGT CACTAGCTTC TGCACGTGTA GCACGTGGGT TACGTTGCAT	300
AGAATCTAAC ATTTGTGTAG CTGTAATAAC TGGTTTACCT AATTTGTnAC ATTGTCTGAT	360
TAAATCTTTT TGAACCATTG GGACTTTnTC AG	392
(2) INFORMATION FOR SEQ ID NO: 2933:	

(i) SEQUENCE CHARACTERISTICS:

(B)	TYPE: nuc.	leic	acid
(C)	STRANDEDN	ESS:	double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2933:

TGACTATGGT	ATCGCATGTT	GTGTATCAGC	GATGACAATT	GGTAAACAAA	TGCAATTCTT	60
CGGTGCACGT	GCGAACTTAG	CTAAAACATT	ACTTTACGCT	ATCAATGGTG	GTAAAGATGA	120
AAAATCTGGT	GCACAAGTTG	GTCCAAACTT	CGAAGTATTA	ACAGCGAGTA	TTAGAATATG	180
ACGAGTATTC	AAGAAATTTG	ATCAAATGAT	GGATTGGCTA	GCAGGTGTTT	ACATTACTC	240
ATTAAATGTT	ATTCACTACA	TGCACGATAA	ATACAGCTAT	GAACGTAATT	GAAATGGCAT	300
TACATGATAC	AnAAATTGTA	CGTACAATGG	CAACAGGTAT	CGCTGGTTTA	TCAGTAGCAG	360
CGGACTCATT	ATCTGCATTn	AATATGCACA	AGTTnAAACC			400

(2) INFORMATION FOR SEQ ID NO: 2934:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2934:

AAAATATGCC ATGACTGGCA TO	GACAAGAAT	r G GACGTTAG AAGCATC	TCA AACTGGTACG	60
TTCAGAGGTC GTAACTnTAA CT	TTCAATGGT	GAAGGATTCT CACGTCA	AAC ATTTAAAGTA	120
AATGCCGTTA GTCAAAAAGA CT	TACGACAAA	rgggtgaaag aagttaa	AGG TAAGAnAACG	180
TTAGATCAAG ATACATTTGA TA	AAACAATTA	T'ACCAAGCA CACCTAA'	FAA AGCTTTAGAA	240
TTTAATGGTA CACATATGGC GT	TTTGTTGAT	CCAGCAGCCG ATCCAGA	ATA CATCTTCTAT	300
GCATATAAAC GTTTCAATTT CO	GGATTGAAG	GTCCCAAACT TCACTAG	TGA GGAAAATATG	360
TTTAAGGTGT ATCAGACAAA CO	CCTTAATAC	CTGCTCGTGA		400

(2) INFORMATION FOR SEQ ID NO: 2935:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2935:

ATGGAGTATA CAACTACTTC GGCATTGGCG CTTACGACAA CAATCCTAAC TACGCAATGA 60

CGTTTGCAAG (GAATAAAGGT	TrgACATCTC	CAGCAAAAGC	AATCATGGGC	GGTGCTAGCT	120
TCGTAAGAAA (GGATTACATC	AATAAAGGTC	AAAACACATT	GTACCGAATT	AGATGGAATC	180
CTAAGAATCC A	AGCTACCCAC	CAATACGCTA	CTGCTATAGA	GGGTGCCAAC	ATCAAGCAAG	240
TACAATCGCT A	AAGTTATATA	AACAAATCGG	CTTAAAAGGT	ATCTACTTCA	CAAGGGGTAA	300
ATATAAATAA A	AGAGGTGTGT	AAATGTACCA	AATAAAAGAT	GTGAAACGAG	AATTAAAAAT	360
GATGGTGTTG A	ACTTAGGTGA	CATTTGGCTG	TCGTTTACA			400

(2) INFORMATION FOR SEQ ID NO: 2936:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2936:

AAACAATACA	AACAAAAGAA	AGTCAACCAA	GGATGGATTC	CTATTTTAAT	CCTTGGTTGA	60
CTCTTATTTT	ATTTAAATTG	TAGAACCTAG	AAAATAAAGT	TTAATTAAAA	GCACCAATCA	120
TTTCTACTTT	GAAATCTAAG	GTTTCTAAAA	TAGCAATGAC	TTTCTTTATA	TCGGTGTAA	180
TTGCAGAATC	AGCCTGAACG	AAAAATCGAT	ACATACCTAA	TTGTGTTTTT	AAAGGACGAG	240
ACTCAATCCA	GGGTAAATTA	ATATTAAACA	AAGCAAATGT	ATTAAGCACA	CTTGCTAACA	300
ACCCGGGTTA	TCATGCATTG	GTGTAATTAA	AAACATCAAT	GGTGTCGCAT	TTTGATCAAA	360
TGCTGCTGAT	TTTTTATAAC	TAAAAACGTG	TCAGGTATGT			400

- (2) INFORMATION FOR SEQ ID NO: 2937:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2937:

TTATTATCTT	GATACATTGA	GTGTATATTC	CATTTTCCAT	GAGGCGTTAA	ATAACGCATA	60
CCAAAGCATC	TGTACCACCT	TTAATTTTCT	TATCTCTATT	CCCAAATACC	ATTGGCGGCA	120
ATGTCGGTTT	ATATACTGGT	AAGCTCTCCC	CAAATTGTTG	GAAAACTTCG	TGATCCACAT	180
AATAACTTTG	GACGTCCTGT	TAATGTTCTA	AAAGGTACTA	GACGTTCTAT	ATTCGTTGTA	240
AATGGTGGAA	TATCGTCGAC	CTTGTTTATT	TGAACCGGGG	AATACTGCTG	ТСССТАТТАС	300

TTCTCGTGGT TGTGGAAGTT ATATTTAAAA ACGGAAATTT TCTCAGCAGC GnTTTGTTA	360
GGAAATATCT TTTAACGGGC ATTCCAGTTT GTTCnTCGGG	400
(2) INFORMATION FOR SEO ID NO: 2938:	400
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(D) TOPOLOGI. IIMEAL	
(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2938:	
	60
TATCTCTTAA AGCCGGTGAT GGTGGTAATG GTATTACCGC ATACAGAAGA GAAAAATATG	60
TACCATTTGG TGGACCAGCT GGCGGTGACG GTGGTAAAGG TGCTTCAGTC GTATTTGAAG	120
TGGATGAAGG TTTAAGAACG TTATTAGATT TTAGATATCA ACGTCATTTT AAAGCAAGCA	180
AAGGTGAAAA TGGCCAAAGT AGTAATATGC ATGGTAAAAA TGCGGAAGAT TTAGTATTAA	240
AAGTTCCACC TGGTACAATT ATTAAAAATG TTGAAACAGA CGAGGTTTAG CAGATCTTGT	300
TGAAGATGGT CAAAGAGCTG TAGTAGCGAG GŒGGTCGAG GTGGCCnAGG TAATTCACGT	360
TTTGCAACAC CTAGGAAACC CTGGCACCTG GACTTCATGG	400
(2) INFORMATION FOR SEQ ID NO: 2939:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs	
(B) TYPE: nucleic æid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2939:	
CTAACCTCGA GTTCGTATTA TGCCCACCAC ATGTCTGCTG GCTTGTCGTA AATATTAACA	60
GATTTCAAAG TTTGACAAGC TTTTTGGAAA CCTTCTTCTA CTGACATAAT AGATCTTCA	120
TGTTCAATAC TTAATACATA ATCATATCCA TTAATAATAA GTTGACTTAT GATATCTGCC	180
CATACATATG GACTATGTCC TAAGCCAACT GTACGGAATG TCATGCTCTT GTCGCAACGT	240
TACCATATGG TTGCATATCA GTTAGACCAT ACATATTTAC ATTTTCTTGG ATTAATATAC	300
GTATCTTTAG CATGGAAGTG ATGAATTGCA TTTGCTTGGn CTAATATGCG AATCGCAGCC	360
AATTGGGTCA ATAnCnTGGC CACC	384
(2) INFORMATION FOR SEQ ID NO: 2940:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2940:

TTTCATATT TTCTATTAAT GATTCATATT GTAGGGTGAT TGCAATGTCA TCTAAGCCAT 60
TTACAAGTTT ATTCTCCAA GTTTCATCAA TTTCAAAATG GAAACGCTTG TCTGGTGATG 120
ACACAGTTTG ATTTGGTAAA TCGACCTCAA TTTCAACATA TTGTGCAAGA TGTTCACGGG 180
CACTTTTTC TAAAACGATA GGCAACATCG CATTTTTAGT GCAATTCATA TAAAATATGT 240
CACTGAAACT TCCTGCAATA ATAATATGAA AACCATAGTC CTTAAGAGCC CAAGAGCAT 300
GTTCACGACT TGAACCACAT CCAAAATTAT CTCCAGTNAT TAAATNGGAG GCCCCTTTAT 360
ATTGTGGTTT GTTAGGGTTG AATCAGGGTT TNTNGGAACC 400

(2) INFORMATION FOR SEQ ID NO: 2941:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 409 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2941:

ATCATAATCC ATCGTGCGTC CAAGAAGTAC TTGATTATTT AAAGTTTGTA TTGTGAATCC 60
TGTGCACATT GTTCTCACTC CTCTGTACCT TCATTTACTT TAATCACTTT CAAATAAAGC 120
TGTTTCACTT AAACATACTA TAAAAAATCA ATTATACAAG CAATTAATTG ATATTCATTC 180
TCAATAACTG TGGTATGATA TGTAAGGAAA TCATGACTTA TGTGTGAGTG AACGATCATC 240
TATACATCCG TTCACTTCAT CTCATGACTT TCTATATTTA ATTTTTACAA GGGAGTGACA 300
TCTGTGAATA ACACACAATC TTCACCACGC GTAATATTA TATTGCGATT ATGTTGTCTG 360
CATAACATAT GGTTGTCA CAATCATTAT TANTATAGGA CCTCCGTTG 409

(2) INFORMATION FOR SEQ ID NO: 2942:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2942:

ATGAAGTGTC AAAAGGTTTA AAAACATCTG AAAGGGGTTC GCACATGTTTTAAACTTTAA 60

AAATAAAGGT	GGATGTCCAA	AATGTCGACC	AGCAATCAAC	TATTATTTAA	ACATGGTTTA	120
TCCACATGAT	CATGAAGATG	AAAGAGAATC	AAGATTTGCT	AACGAACGTT	ACCATGCGAA	180
TATTCAAAAT	GATGGTACAT	TTTCTGTTAT	ACCTCAAATG	CGTGGGGGTG	TTACAGATGC	240
AGACCAACTG	ATTCGTCTAG	GAGAAGTGGC	TAAGAAATAT	CATGTGCCAC	TAGTTAAAGT	300
GACAGGTTCA	CAACGTGTTG	GTTTGTATGG	AGTTAAAAAA	GAAGATTACC	AAATATATGG	360
GnAGCCTAGG	TATGCGTCAG	CATCAGCTTA	TGGTAAGGAA			400

(2) INFORMATION FOR SEQ ID NO: 2943

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2943:

ACCTGGAAAT	GTATGTGCCA	TCTCTTTAAG	CCAATCAGTA	TCTTGAATAC	CTTTCGTTCC	60
AACTATGCAA	TAATTAATCC	CTGCGGCAAA	GTAGTCCATG	ATTGTGACTT	CGTACGAATG	120
CCACCACCTA	CTTCAATATC	TTTGGTTGTT	AATCTCCTCA	ATGACTTAAT	ATAATCAAAC	180
TCTCGGGCAT	GCTGTGCCTT	AGCACTCATC	AAGTCGACGA	TATGAATACG	ATCACACAT	240
TCAAATTGAC	TATAGTAAGC	AATACTTTCT	TCAGCCGAGC	GTGGACATTT	TTTCTTCACT	300
ATCATATTTA	CCCTCTGTTA	ACCTCACACT	TGTTGACCCA	ATCAAATCAA	TCGCTGGGCC	360
ATAATTCAAT	CATTTnATAA	ATCCCCCTTG	TATTGGCCTG			400

(2) INFORMATION FOR SEQ ID NO: 2944:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2944:

AACAAAAGGG GTCTATCGTC AATCGTTTCT TGAATAGTGT TGAAAAAATC GGAAATAAAT 60
TGCCAGATCC TAGCGTCTTA TTCTTTTTAA TGTGTGTGGG CTTAGCCATT ATGACATGGG 120
TTATCTCATT ATTTAATGTA TCTGTTAAGC ATCCAGGTAC GCATCAAACC ATTTATATTA 180
AAAATATAAT TAGCCATGAT GGATTTACŒA TGATAATGAA TGATACGATT AAAAATTTCT 240
CAGAGTTCCC AGCATTAGGC TTAGTACTAG CAGTGATGAT TGGTATTGGT GTTGCAGAGA 300
AAACAGGATA CTTCGATAAG TTAATGATTT CTGTTGTGAA TCGCGCACCA CGTTTCTAAA 360

TTTACCGCTA	TAATATTAAT	GGGnATTTTA	GGGAGTCAGA

400

- (2) INFORMATION FOR SEQ ID NO: 2945:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2945:

ATTTTACAAG TAACGGTGCA TCACCAGATT CTAATTTAAT GTCATGCTCA GCAGCATTTT	60
GATAACCCAA CTTTTCAAAG TAGTCAAAAC AATGGTCTAC AACAACCGTA CTATACTCTT	120
GTGCTTTGGC CGCTCTTCTA CTGCTTGAAC CAAGCCACGA CCTAATTTTT GTCCACGTAA	180
TTCAGGATGA ACTGATAAAG AGGCAATCGC CAAACCATAA TACGTCTTAT CATCACTATT	240
AATTTCTACT TCAATTAATA AAACGTGTCC AACGACATCG TTATTTTCAT TTTTCGCTAT	300
TACTTCTAAT TCAAAATTAT AGCAAGGAGA TTTTCTTAAA TGGTTTACTT TCGGCACGTG	360
CCTGGCCAAC TCGTTTTCAG GATTATCATC CAAACTTTCC	400

- (2) INFORMATION FOR SEQ ID NO: 2946:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2946:

GGAAATAATT ACTTGAGCTA	A GATAAGTTGA	CAGCTGTGCA	ATTATTTTCA	GCAGCTAATT	60
GTAAAATTCG CTCTAATCTT	GCTGATGAAT	GTTCAGGCCC	TTGACCCTCA	TATGCATGAG	120
GTAAGAATAA TGTTAATCCT	GAACGTTCTC	CCCATTTTGA	GCGAGAACTG	AATAAGAAGT	180
TGTCAAAAAT CATTTGTGAG	CATATTTGGCA	AAATCACCAT	ATTGTGCTTC	CCAAATATTG	240
AAGCTTTTTT TGTTTTCCAC	ATTATAGCCG	TATTCAAAAC	CAACTACTGC	TGCTTCTGAA	300
GCGGAGAATT GTGTATATCA	AATGTCGCTT	TTTGAnCAGG	AGCATGATGT	AAAGGTGTAT	360
ATGTTnCACC nGTTTGCTCA	TCATGTnACA	CGGCAGCCGT			400

- (2) INFORMATION FOR SEQ ID NO: 2947:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

60
120
180
240
300
360
400

(xi) SEQUENCE DESCRIPTION: SEQ I	ONO:	2948:
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(D) TOPOLOGY: linear

TTTTTCAAGT	TTTGCTGAAG	GCTTTACACA	AGGCTATTTA	ACAATGGATG	CCATTGCAGC	60
AATTGCTTTT	TCAATGATTG	TTGTTAATGC	AGTAAAACTA	ACAGGCATTA	CTAAAACAAA	120
TCAAATATTC	AAACAAACTT	TGACTGCT G G	TTTAATTGCA	GCCGTAGCTT	TAATTTTCAT	180
ATATATTTCA	TTAGGTTATA	T TG GTAATCA	TATGCCAGTA	AGTGACATGA	CGTTAGATCA	240
ATTGAAATCC	AAAGATCGAA	ACATTGGGAC	ATATTTATTA	ACGACAATGG	CTTCAACAGG	300
ATTTGGTCAT	CCGGAAAATA	TTATTGGGGA	TCATTGTGGC	GCTGGCATGC	TAACTACAGC	360
ATGCGGGCTA	TGGTGCAGTT	CCTGAATATT	CCATAGATCG			400

(2) INFORMATION FOR SEQ ID NO: 2949:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2949:

CATGGCTTCA GATTGTTTGA ATTGAATGGA CAATTTTGGn TTCTGTCCAA AATTCTTACA 60

AAATCTTCTA CCGATAAACT ATCAAGTTCA ACTCTAATCG GAAAAACGA CTTGCAATTC 120

TGGTATCAAG	TCACTCGGCT	TAGATACATG	GnAAGCTCCA	GCACCTATAA	ACAGCATATG	180
TTCAGTATTC	ACAGTACCAT	ATTTGGTTTG	AATAACGCTA	CCTTCAAGTA	TAGGTAAAAT	240
ATCTCTTTGA	ACACCTTGTC	TTGAGACATC	TTGACCACTA	TTATGATTAT	TCGTCGCAAC	300
TTTGTCGATT	TCATCTATAA	AGATGATACC	CATTTGTTCT	GCTAATTCAA	GCGCTTCTTG	360
GTTAGCGCTT	TCTTGATCAn	TTAGTTCATC	CGCATAACTA			400

(2) INFORMATION FOR SEQ ID NO: 2950:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2950:

TTGACTTTGT AACTAAACTA CTCACTCGAC CGACTCAACT GTTTAAATGT TTCAGATGGT 60

TTAACTCTAA ATACTACGTA TAAATCACCA GCAGGTCCTC CATTCACGCC TGGAGAGCCT 120

TCACCAGCTA ATCTAATTTG TTGTTCATTG TCGACACCTT CAGGTACTTT CACTTCTAAT 180

TTAACTGTTT TATTTTCAGT ACCTTTTCCG TGACATGTTG GACAAGCTTC TTCAAATTCT 240

TGACCACTTC CATTACATTT AGGACAAACT TGTTCAGTAC GAACTCTACCTAAAATTGTG 300

TTTTGTTCTA CAGCTACATG ACCAGCGCCA TTACAGTAAC TACAAGTCTT TTTACTTGTT 360

CCAGGCTTTG CACCATCACC ATGACATGTT TCGCATGTNA 400

(2) INFORMATION FOR SEQ ID NO: 2951:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2951:

CAATGATTT AAAAGATGCA ATAAAACCAA ACTTAGTACA ATCAATTGAA GGGACACCTG 60
CATTAGTTCA TGGTGGACCA TTTGCGAATA TCGCACACGG TTGTAACTCA ATTTTAGCAA 120
CTGAAACAGC ACGTGATTTA GCTGATATCG TTGTAACGGA AGCTGGATTT GGTTCAGACT 180
TAGGCGCTGA AAAATTCATG GACATTAAAAG CGCGTGAACA GGATTTGATC CGGCAGCTGT 240
CGTTGTTGTT GCGACAATTC GTGCGTAAA AATGCATGGT GGTGTAGCGA AAGATAATTT 300
AAAAGAAGAA AATGTAGAAG CAGTAAAAAG CAGGAATGGT TAATTTAGAG CGTCATGTTA 360

ΔΠΖΔΠΔΠΠΔΔ	CAATTCCGTG	TAGAnCCGGT	TGTTGCCATA

400

- (2) INFORMATION FOR SEQ ID NO: 2952:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2952:

TCAAGTAGCA	AAAGAAACAG	GTGCTTCAGT	TATCGGTATT	GATATTGTC (CACAAGCCGT	60
TGACCTAGGG	CGCAGAATCG	TTAACGTCTT	AGCACCAAAT	GAAGATATAA	CAATTACGGA	120
TCAAAAGGTA	TCTGAACTTA	AAGATATCAA	AGATGTGACG	CATATCATAT	TCAGCCGACA	180
ATTCCTTTAA	AGTACAGCAT	TTTAGAAGAA	TTATATGATT	TAACAAATGA	AAATGTCCGT	240
AGTTGCAATG	CGCTTTGGTG	ATGGCATCAA	AGCAATATTT	AATTATCCGA	AGAAACAGCG	300
GAAGATAAGT	GGGCCATGTG	TGAATAAACA	TATGAGACCA	CAGCAAATTT	TTGATATAGC	360
ACTTnATnAA	Anagccggct	ATAAAGTnGG	TATTACGGAT			400

- (2) INFORMATION FOR SEQ ID NO: 2953:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953:

CGCAATTCAC AATAACATTA A	TTTTTAATAL	GGTCTCATAT	TTTCAAAAAA	CATACTGTTA	60
TTATCCCATG GGnTTAAAAA T	TATCATTAGT	ATATAAACGA	AACACTTTAC	GATAAATGAT	120
ATCTGCAAGC CAAGCTGTTA C	CAAATGGTAC	AACAAAGAAC	GCTACTACAA	TTAGTAAGAC	180
ACTCAACCAA GCAGAATCAA C	CCTCCATAAA	TTTAAATGCA	TTAATCGGC	CTACCATTCC	240
TATAAAACCA AATCCAGCTG A	CTCTTTCGT	TCCATGAATA	CCTACTAATG	CTGATACCAA	300
ACCTGATACA ATGGCTGTCG T	AnGGGCGGG	GnGCATAAGA	ATTGGATATT	TCACCATATT	3.60
AGGTATCATC ATTTTAACGC C	CTCCAAAGAA	GACCGGATAA			400

- (2) INFORMATION FOR SEQ ID NO: 2954:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	NO:	2954:
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ATATTGGTTC TCAAGGTATT GTGCAAGGTA CTTATGAGAC ATT	TGCCGAG CTAGGTAATC 60
AACACTTTAA TGGAGATTTA GCAGGCACTG TTACACTGAC AGCA	AGGTTTA GGTGGTATGG 120
GTGGTGCGCA ACCGTTAGCA ATTACTATGA ATCATGGGGT AGCA	AATTTGC GTGGATGTTG 180
ATGAAACACG TGTTGATAAG CGAATGATA CGAAATACTG TGAT	CGTTAAA ACAGCTGATT 240
TAGATGAAGC ATTAAAATTA GCAGAAGAGG CGAAAGAACG TGG	GAGAAGG ATTATCAATC 300
GGGTTAATTT GGAAATGCTG TAGACATCCC ATCCAAGCGG ATTC	CTAGGAA AAAGGGTTTT 360
AAAATTGGAC ATTAATTACT GGnCCCAAAC CAAGTGCCCC	400

(2) INFORMATION FOR SEQ ID NO: 2955:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2955:

TTCAGAATAC	GAGCAATGTC	AGTTGCAGTG	TTTAATAAAT	TTTGTTCGCT	ATTTTGTAGG	60
CATCTTCTAA	AGTGCTAGGT	GAAGAGATTA	TAGAATAGGC	ACTATCAATA	CCGAAATCGT	120
AAACATGTTG	ATAATTTTCG	CCTAGACTGC	CACAAATCGC	GATGACAGGA	ATATGATATT	180
GTTTTGCAGC	TAACGCAACG	CCTACGGGTG	TTTTACCAAA	GATGGTCTGA	TAATCCATGC	240
GTCCTTCTCC	AGTAATAACG	AGGTCTGCAT	CTTTAATTCT	TTGATGAAAA	TCTGTAATGT	300
CAAAGACGAC	ATCAATACCT	TTTGTTAAAG	TTGTCTCACA	AAACGnTAAT	AATGCTGCGG ·	360
CCATACCGnC	AGTGCACCAG	AACCTGGTAT	TTGGTTnACG			400

(2) INFORMATION FOR SEQ ID NO: 2956:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2956:

AATACGTCCT	TTATATAATG	TTAATAACCA	GTTAAACAAT	TTCACACCAG	TTGGAATACC	60
AATCAGCATT	GTTGAAATTG	AGAAGAATGA	GTTGATTAAC	GCACCATTAC	CCATTGTGAA	120

GAAATGGTGA	ACCCAAACTA	AGAAACTAAG	GAACGCGATA	CCGGCAGTG	CCCATACCAT	180
ACTTTGATGT	CCGAATAAAC	GCTTACGAGC	GAATGTCGGG	GATAATTTCT	GAGTAAATAC	240
CAAATGCTGG	AAGGATAACG	ATATAAACTT	CAGGTGCCCC	CATACCCAGA	AGAAGTTAGC	300
CCAAAGCATT	GGGCATACCG	CCATGTGGCA	CTGTGGAAGA	ATGCTGTGTC	CAATATTCCG	360
nTCATTGGTn	CATTAATGGC	TAACGCTAAC	GGTTTAAAGG			400

(2) INFORMATION FOR SEQ ID NO: 2957:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 394 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2957:

TAGTAATTAA TACGATGTCA GCACCTACTG ATTTTGCTTT GTCTGCTAAT AATCTTAAAT 60
GTTCCGTGGA CCTGAACCAG AGATAATTAC AAATACATCA TTCGACTTAA TCGCAGGTGT 120
CGTTGATTCT CCAACAACAT GTCCTGTTT GCCGAGCTGA TTTAAGCGCA TTGCAAAACT 180
ATTCGCCACG AATCCTGGAA CGTCCTTTGC CAGCTACAAA TATATGTTCA GCATGTAGTA 240
TTTTGGGATG CAAAAGTTGG AAAACTCCAT CCGnTTCAAC ATGTGACAAA GTCATCTTTG 300
AATTCATCTA GANTTAATTG ATAGTCACTA ANTTTAGCCA TATTACTTC CTTCGGTTGC 360
CAGCGCGACC ATTGTTCGC AGCTTCTTAC TGGG 394

(2) INFORMATION FOR SEQ ID NO: 2958:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2958:

AATTATTCTA CCTATAATTA AAAATGCTGG CAAAGGTGTA ATGATGATGA GTAATGAACC 60
TACAACATTT AATATCAATC CTACATAAGT AATTTTGACG CGACCAAATT TATCAGCAAC 120
ATCACCAGCA CCTACGATAA ACAAACCAGC AAATAAGGCA GATAAGCTAA CAGCGATTAT 180
TTATCGTTCC AACGTCACTA CTATATGTTG ATTGTAATGG GACAACAAGA TTAACAAGTG 240
ACTGCGCGAA TAGCCAAAAG GTAATAACCC CTAAAACGAT ACCCAAANGC AATCGGTTGT 300
TCACCTCTTA AATTGTTTG ATGTCCNT GGATTAGGAT AAGCCTCCTA TGTTTAGGAA 360
AAACAATTTT TAATATGGTA TATTAAGGAN ACATTTCCTT 400

(2) INFORMATION FOR SEQ ID NO: 2959:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2959:

CTTCTTTCTC AACATCA	AAG AACATATGGT 1	TTTGTTTCAA	ATATTCTTTT	ACTAGCGCGA	60
TATGTTCGTC TGATCTAC	CCA GTTAACTTCA 1	TATATTTAAG	AGATTATCA 1	CAACTGGGA	120
AGAATCCGCA AGTTGCTC	CCA TACTCTGGTG (CCATGTTTGC	AATTGTAGCA	CGGTCTGCTA	180
GTGGTAAATG TTGTACAG	CCT GGACCAAAGA	ACTCCACAAA	TTTACCAACA	ACACCTTTTT	240
TACGTGGCTC TTGAGTT	ACT CTTAACGCTA	AATCAGTTGC	TGTTGCGCCT	TGTGGTAATG	300
AATTTACTAG TCGTACAC	CCA TTAACCTCTG (GAATTGGG G A	AATAGGAGGG	TTGTCCAGGC	360
ATTCCAGCTT CAGTTTCA	AAT ACCACCAACA r	nCCCTCCTAG			400

- (2) INFORMATION FOR SEQ ID NO: 2960:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 380 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2960:

ACAAT CGGAAAGTAT CGTGACAATG CATATATAAC AGGGAGGGTT 6	5 O
AAGGG CATTTTTAGA TTTAGGTGCA CTGTTTATTT TACCGGTTGT 120	0
CCTAT TCTTTAGGCA GAAAATTGGA GCGGCATTTA GGTCTGGTTT 18	30
TTTTG TAGGGATTTT CTTAGTCATC GATTTATTAG TTAAAAATTT 24	10
AGCGA TGGTTAAAAA TTTAGGCGTC AnTCTGATG TGGATTGATG 300)
CATCA TCTATCGCTT GGGCATCATC TGTnCGCnCC ATTTTATTAT 36	50
TAGTT 38	30

- (2) INFORMATION FOR SEQ ID NO: 2961:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2961:

GGCCATTGGT	CGAACTTACG	AAGAATCATT	GTTAAAAGCA	ATTCGATCAC	TTGAGTATGG	06
TGTGCATCAC	TTAGGATTAC	CAAATGGTGA	AAGCnTCGAT	CTTGATTATA	TTAAAGAACG	120
TATTTCACAC	CAAGATGATG	GACGATTATT	TTTCATCGGC	GAACAATTAG	AAGAGGCACA	180
ACAGTAGAAG	AAATTCATAA	TATGACTCAG	ATTGATTACT	TCTTCTTACA	CAAGTTCCAA	240
AACATTATTG	ATATTGAGCA	TCATTAAAA	GAGCATCAAG	GTGATTTAGA	ATATCTTAAA	300
TATGCnAAAG	ATTATGGnTT	TAGTGGTAAA	ACAATAGCGC	ATCGCCTTAA	TATGACGG	358
(2) INFORMA	ATION FOR SE	EQ ID NO: 29	962:			

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 364 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2962:

TTTGGGCATC	ATTAGGAAAA	TTCTTTGAGC	AACTTTAGTG	TCTACTGGGT	AATACAATTT	60
TATCACCATG	TTTTTCTAAT	AAATCTTTTG	CGAATCGATT	TTECTTCTT (CTAATAATGA	120
AATACCAATT	TCTTTACCTT	GCGCTTTTAA	GAAAGTATAA	GCCATACCTC	CGCCGATGAT	180
AATTTTATCA	GCTATGTTAA	CTAAGTTTTT	GATGACATTA	ATTTTGTCAG	ATACTTTTGn	240
GnCACCTAAA	ATAGCAACAA	CTGGTTTATG	TGGATCGTTA	ACTACGCCGC	CAATAAACTT	300
AATTTCTTTA	TCCATTAAGA	ATCCAGCTGC	AGTTTCTAAA	TGTGTAGAAA	TACCAACATT	360
ATTn						364

(2) INFORMATION FOR SEQ ID NO: 2963:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 372 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2963:

GTTGATTTCT	TGAAAGATAA	TAAAAAATTC	AAAGAAATGG	GATCTAGGAT	TCCTAAAGGT	60
GTCTTACTTG	TTGGACCTCC	AGGTACTGTT	AGAAACATTA	CTTGCTAGAG	CGGTTGCAGG	120
TGAAGCTGGC	GCACCATTCT	TCTCTATTAG	TGGTTCAGAC	TTTGTAGAGA	TGTTTGTTGG	180
TGTTGGTGCG	AGCCGTGTTC	GTGACTTATT	CGATAATGCT	AAGAAAAACG	CGCCTTGTAT	240

CATCTTTATC GATGAGATTG ATGCTGTTGG TCGTCAACGT GGTGAGGTG TTGGTGGCGG	300
TCATGATGAA CGTGGAACAA ACCCTAAACC AnTATTAGTT GAAnGGATGG TTTnCGGTGG	360
AAAATGAAGG TG	372
(2) INFORMATION FOR SEQ ID NO: 2964:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2964:	
TTAGCAGAAC GCCCACAAAA CCTATCTCTT GCTGTAAAAG AATTTGTGAA nCTGCTGGCT	60
TAAAACGTGT TGGCATAATT GCAGCTTTAG GAGCTACAGT TATGTTAGGT TTAAGTACAA	120
TTAAAAAATT ATGCCGTAAA TAGAGCAAGA CATAAACAAT AATTTAGGAG TCTGGAACAA	180
TAATCAATGT TCTAGGCTCC TAAATGTTAT ATTGGCAGTT CTGAAACATT TATAAATCTT	240
TGATTATGAA CTCACAACAG TGCTCTATGC TTTTATAGAT TTTAATAAAT TAGCCATTTC	300
AATTGCACTT ACTGCTGCTT CACACCCTTT ATTGCCAGCT TTCGnACCTG CnCCTTCCAC	360
AGCTGGGCAA TACTGCCAGC CG	382
(2) INFORMATION FOR SEQ ID NO: 2965:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2965:	
GGGAATCATA CAATCATTAC CAATAAACAT GTTACTTATC AATGAAAGT CGGTGATGAA	60
ATCAAAGCAC ATCCTAATGG TTTTTATAAT AACGGTGGTG GACTTTATAA AGTTACTAAG	120
ATTGTAGATT ATCCTGGTAA AGAAGATATT GCGGTCGTAC AAGTTGAAGA AAAATCAACG	180
CAACCAAAAG GTAGAAAATT CAAAGATTTC ACTAGCAAAT TTAATATAGC ATCAGAAGCT	204
AAAGAAAATG AACCTATATC AGTCATTGGT TATCCAAATC CTAATGGAAA TAAACTACAA	300

GTTGTCCAAC CTGGCAGCTC TGGTTCACCT ATATTAAATA

360

400

ATGTATGAAT CAACTGGTAA AGTACTATCA GTGAATGGAA ATATAGTGAC ATCTGATGCG

/ i \	SEQUENCE	CHARACTE	RISTICS

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2966:

60	TGGCGGTAAC GGCGCTGAAC	TATTAGCTGG	CATTTGACTT	CAGGCTAATA	TGGGGATTCA
120	CCATTCTCCT TTGTCGTCAT	AAGTGCATTC	CTGCAATTAT	ATTCAAAGTG	TTTAAATGCG
180	CGTAAATTCC TAGGTTTAAC	GAACCAGGAA	ACAAGGATGC	GTAAGTTTCT	ACTCAT G ATG
240	AGTAACAAG AAGTTATGAA	ATATATCAAG	GCTTACAAGA	AATAAACATC	ATTGACTCCG
300	GAAAAAAGAT AACTAATAAA	GAAATATAGA	TCAGTCACGT	TTGAAAAGCG	TCTGACATTC
360	AGTAGCTAGA ACGGTnATAC	ATGTCATTCT	AACAAGTAGT	GTATTTTAAT	GTTTAGTTAA
400		TTCAAAGGTT	AATTGAGTAT	TTTTTGTGGA	TACTTGTnTG

(2) INFORMATION FOR SEQ ID NO: 2967:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 387 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2967:

ACGAGGAATT	AGTGAAGTAC	AATATTATCG	GTGGTTTTGA	TTTAGGTGTT	GTTTCAGACG	60
ACTTTAAAAA	TCACATGTTA	ATAGCTGTAA	CTGAATTAAG	AACAAAAGAT	GAAATCGATA	120
CATTTGTAGA	AAAGGCTGGT	GAGTTAAATG	ACTAGTAAAT	CAAGTCCATT	AATTTTTGAA	180
AGATCTCGTG	AAGGCAGATA	TGCATATTCA	TTACCAAAAA	GTGATATTAA	AACAAATTCT	240
GTTGAGTCAT	TGTTAGATGA	TAAATTTATT	CGTAAAAACA	AAGCGGAGTT	TCCTGnAGTT	300
GCTGGAACTA	GACTTnGTAC	GTCATTAATC	CTGGACCTTT	CCAAATAAAA	AATTCCGGnG	360
GTAGACACCG	GGTTTAACCC	ATGGGGT				387

(2) INFORMATION FOR SEQ ID NO: 2968:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 806 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2968:

AACAAGTGCA AGTGAGTCAA	CATCAGAAAG	TGCGTCAACA	TCACTCAGTG	ACTCAACAAG	60
TACAAGTAAC TCAGGATCAG	CAAGTACGTC	AACATCGcTC	AgTAACTCAG	CAAGCGCAAG	120
TGAATCCGAT TTGTCGTCAA	CATCTTTAAG	TGATTCAACA	TCTGCGTCAA	TGCAAAGCAG	180
TGAATCCGAT TCACAAAGCA	CATCAGCATC	ATTAAGTGAT	TCGCTAAGTA	CATCAACTTC	240
AAACCGCATG TCGACCATTG	CAAGTTTATC	TACATCGGTA	AGTACATCAG	AGTCTGGCTC	300
AACATCAGAA AGTACAAGTG	AATCCGATTC	AACATCAACA	TCATTAAGCG	ATTCACAAAG	360
CACATCAAGA AGTACAAGTG	CATCAGGATC	AGCAAGTACA	TCAACATCAA	CAAGTGACTC	420
TCGTAGTACA TCAGCTTCAA	CTAGTACTTC	GATGCGTACA	AGTACTAGTG	ATTCACAAAG	480
TATGTCGCTT TCGACAAGTA	CATCAACAAG	TATGAGTGAT	TCAACGTCAT	TATCTGATAG	540
TGTTAGTGAT TCAACATCAG	ACTCAACAAG	TGCGAGTACA	TCTGGTCGA	TGAGTGTGTC	600
TATATCGTTA AGTGATTCGA	CAAGTACATC	AACATCGGCT	AGTGAAGTAA	TGAGCGCAAg	660
CATATCTGAT TCACAAAGTA	TGTCAGAATC	TGTAAATGAT	TCAGAAAGTG	TAAGTGAATC	720
TAATTCTGAA AGTGACTCTA	AATCGATGAG	TGGCTCAACA	AGTGTCAGTG	ATTCTGGCTC	780
ATTGAGCGTC TCAACGTCAT	TAAGAA				806

(2) INFORMATION FOR SEQ ID NO: 2969:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 351 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2969:

ACCATCTACT CCGTTAATAG TTACACTGTT ATCATTGGTG TTTGGACTTT CAGCCCTTGC 60

ATCŢAAAAAT ATAAGCTGAT TAAAATCTGT TATTACTTCT TCCTTGTAAC CATCTATGAT 120

TTTTACAAAA GATTGCATTA ATTAGTCAAA CCTCCCATAT AATTATTTGC ATTTGCTCTA 180

TGCCCACTTT GTTTTGACAA TATTTTTTCT AAACCTCTAA TTGCATCATT AGAACCTAAG 240

GATTATCCTG AGAAGAAACA GTTTGAATCA ACGCATCTGT TAATTAATTA CCTTTATCAC 300

TTAACATAAC AATTTGGTTC AACAATTTAC AACTGTAGAA GTATCATTX T 351

(2) INFORMATION FOR SEQ ID NO: 2970:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 359 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2970:

60	TATCCATTTC	GCGTTTCTTT	AATGTATCAG	CACAAATTCA	GAATTTTGAC	AGTGCTTGAT
120	AACCGGAAAA	CTAATTCGAC	TATGTCGCAT	TATCGCATAG	TTTCCGGTTG	AATATATTTC
180	TAATGAATAG	AATCTTCATA	TGGCGTTCTA	TTTATCGGTT	ATGTTTTAAG	TGTCCAGCAT
240	CATCATACCA	TCACCAATGT	ATCATATATA	TCCGATGTTT	AACCTGTTAA	TGATCACCCC
300	TTGATTAAAA	ATGTTTTTGC	CTTTAGTTTG	TTTCAGCGAA	ATCATAATCA	TATAACTTTT
359	AGnnACGCA	AATGGTAAAT	TCGTTGATTA	TTGATGTTTT	GAnccTcagc	TCTTTTCGGC

(2) INFORMATION FOR SEQ ID NO: 2971:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2971:

CAGACGGTCA AGAATCTTAT ACTTATCAAA ATTTATACTG TGAAGCGAGT CTATTGGCTA	60
AAAGACTCAA GGCTTATCAA CAATCTCGTG TTGGGCTATA CATAGATAAT TCGATTCAAT	120
CGATCATTTT AATACATGCA TGTTGGTTGG CAAATATTGA AATTGCGATG ATTAATACAA	180
GGTTGACACC TAATGAGATG ACGAATCAGA TGAAGTCAAT CGATGACAA TTGATTTTTT	240
GTACCTTGCC ACTGGAATTA CAGGGTTTCA AATTGTATCG CTGGGTGATA TTGAATTCGC	300
TGGAGGGATA TTACAnCGAN CAGTTGTTGG GCAACACAAT GGGTATCCAT TTGAACCATC	360
GGATGnAACT TTGTGCCGAA GGTCGCCTCC ACATnTAATG	400

(2) INFORMATION FOR SEQ ID NO: 2972:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 392 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 292:

TCAACCGCTT	TACAGCCAAC	CGGCGACGCT	GACATGGATC	GCCTGGCCCA	TGCCCACGCC	60
TTGGCGCCAT	CATTATTAAT	TGCTGCAGTT	ACGGTATCTT	TAATTGCGTT	AAATAAACCT	120
TCCATTGAAA	ACACTCCTTA	AAATTTAAAT	TTGAAGATAA	CAAAAACGTG	CGTAnTTTTT	180
AAATCACCGA	AATGTTATTC	CTTAACGTT	TTGTTGTTGT	TATTTTAAAA	TAAATTTGAT	240

GCAATTAGTT	TGTTTATCCG	CACAACATCT	TATAATGTAC	TTAACTGTAT	TTTAAAGAGA	300
AAAGAAATAC	AGTTAGGCAT	TCAAAACTGT	ATTTAACACA	ATTAAGTTGC	CTGAATTCGT	360
ATTTAAGTCT	TATTGAACCT	TTTTnAGATA	An			392

(2) INFORMATION FOR SEQ ID NO: 2973:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2973:

ATTGCAATGA	TAGCAATCGG	AATCGCACCT	GCTAAAATAA	ACGTTGTGCC	ATCCGTCGCA	. 60
TTTGTACCAC	GAATCACAAT	GTCACCAAGC	GTAGGTGCTC	CTATAAATGA	TCCAACGGCA	120
ACAACACCTA	TCGCAACAAC	CAAGGCAATA	CGAATGCCAC	CGATAATAAC	CGAAACAGAT	108
AACGGTAATT	CAATCATTCG	TAGCACTTGA	TTGCGTGTCA	TTCCCATACC	TTTGCCAGCA	240
TCCTTAATAT	TCGCATCAAC	ACTAGCTATA	CCAGTATAAG	TGTTTTTATA	ATTGGAAGTA	300
ACGCATATAA	AAACACTGTT	AAACTACTGT	TCTGAnCTAG	CCTGACTACA	TTAAATAGTn	360
ACATTGCATG	ACTGGACTGn	TGGATATATT	GCATGGATnC			400

(2) INFORMATION FOR SEQ ID NO: 2974:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2974:

GTATTCTTTA GGTAATGCAA CTTTTAATCC TTTAATATCT TTACCAATTT CAGATGTAA	.A 60
GTCTACATCA TCAACTGGTG CACTTGTAGA GTCATTAACA TCTGCACCAG AAATAGCTT	C 120
TAATACGATT GCATTATCTT TTACATTTCG AGTCAATGGA CCATTTGGT CTAATGAAGA	180
TGCAAAAGCA ACTAATCCAA ATCGAGATAC ACGACCGTAT GTTGGTTTCA TACCGACAA	.C 240
GCCACAATAT GGCAGCCGGT TGTCTAATTG AACCACCTGT GTCTGGAACC TAAGCTAAA	.T 300
GGTACTAAGC CAGCTGCAAC TGCTGCTGCA GATTCCACCT GAnGGAACCA CCTGGGCAC	G 360
GCTTTAnGGT CAAnGGGGTT AAACGTTTTT TTGGAAATAA	400

(2) INFORMATION FOR SEQ ID NO: 2975:

((i)	SEQUENCE	CHARACTERISTICS	•

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2975:

GAGATCGCGG GTT	CGATTCC CGTCGAGACC	C GTACAAATGC	CTATCCAAGA	GATAGTTTTG	60
TnTTGCGTTT AAT	ATTATAT TAATAAAAGA	A TATATGGACG	AATGATAATC	ATATTGATTT	120
ATCTGTTCGT CCA	ATTTTCTT TAAAATGTAT	GAACCTCAAG	TAACTTAGTG	GTTGGATATG	180
AAAGATAAAC GTn	GACAATA AAATCTTTAT	TAGACGTACA	AACATATGCT	ACTGTCAACA	240
TATTTCTTCG TTG	TGATATG CCACCAGTC	C TCCATAACAT	CAATTGTTAA	AGTAACGAAT	300
AACGAATAAT GAT	ATTTnAT TTCTGAGCCA	A TGACGTGCCA	CTAGAGTTG	CCCATTATCC	360
T					361

(2) INFORMATION FOR SEQ ID NO: 2976:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 356 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2976:

TGCTGCTTCT GAAGCGGAGT AATTGTGTAT ATCAAATGTC GCTTTTTGAT CAGGAACATG 60
ATGTAAAGGT GTATATGTTT CACCTGTTTG CTCATCATGT AACACGGCAT GCCTATGACT 120
GAATGTACCA CGTTCACTAT CTTGACCAGT TAAGCGAATC GGTGTACCAT CTTGTAAAAT 180
TGTCGCAAAT GCAAGTNGTT CTGCTTGTGC CCAATCAACT AAACCATCTT CTTTATTAAA 240
CGGCTCATGA CGCTTCTCAA GAACTTTGTT TAACTTTTTN CAAAATGTTA AAGCCATCCG 300
GATATGTTAA CAATGCATCA TTATTCTTT CAAGTGATCC AAAAGTAAAG GNTTGT 356

(2) INFORMATION FOR SEQ ID NO: 2977:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 371 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2977:

CTTTAGAGCG ACACCTAGTC ACTGCAGCAA GCTATTTCTT TATTTGCTAT GCTATANATC 60

GTTAATTACT	AGACCTATTG	CTGGTAGATT	GATGGATGAT	AAAAATGAAA	ATATTATTGT	120
CTACCCAGCA	TTTATCATGC	TTTTCCTTTC	ATTTGTATGC	TAATTTCAA	GCTATCAAAG	180
CTGGTTAATA	TTACTTGCTG	GTGCTTGCCT	AGGTTTAGGG	TATGGAAATT	TATCATCTGC	240
AATGCAATCT	ATTGCGATAA	AAGTCTCACC	CCCGATTAAA	TATGGTATCG	CGACATCTAC	300
TTTTTACGTT	GGTCTAGATG	CCAGGTGTCG	GCTTCGGTCC	AGCATTCCTT	GGGTTAnTTA	306
CGCAGnGTTT	T					371

(2) INFORMATION FOR SEQ ID NO: 2978:

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AND THE PROPERTY.

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 365 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2978:

TTGTAATTTC	ATGATTACAC	CTCAATTGTT	CTTGTTGTTA	AAACTCAATA	TTTAATTGTC	60
TGCGCTCAAT	AATTTGTTGT	TTAAGTTGCT	CAATATGATT	TGATTGGAAT	TCTTCCAATA	120
ATGCTTTTGC	TATTTCAAAT	GCTACGACAT	GTTCGCAGAC	GATACTTGCT	GCAGGAACAG	180
CACAACTATC	AGAACGTTCA	ATTGTTGCTT	TAAAGTCTTC	TTTAGTATTA	ATGTCTACTG	240
AATTTAATGG	nTTATATAAC	GTTGGAATTG	GnTTCATTAC	ACCATTACGA	TAATTGGCAT	300
CCATTGACAT	ACCGCCTCTA	ACCACCTAAG	TGATTAGAnC	ACMTAATAC	CAATTCACTA	360
TATAT						365

(2) INFORMATION FOR SEQ ID NO: 2979:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2979:

TGATTATATA	AATCTAACCA	GCCAAGTTTC	GTCTGCGGTG	AGACATTGAC	ATTAATTGCT	60
GCAGATAATG	ATTTAACAAC	ATGTGTGGCA	TGTGATTCAT	TAACGATGAC	AATATCATGT	120
GTTACAAGAT	ACCCCCAGGC	TTTAAGACTC	GGTAGTACTC	GCGTAATGCT	TTTTCCTTTA	180
TGGCGATGGG	TAACATTGTT	AACATTGCTT	CATTTAAAAC	GATATCGAAT	TGATTGTCAT	240
CAAAGGGCAA	TTTAACAGCA	TTCGCTTGTT	GAACTTGAAT	ATATGATTCA	nGACCTGCTG	300

CGGAAATGTT TTCCGTGCTT TTTCTAAGCC TTCnTATTAT ATCAACGCCT GAnGTGACAC	360
CAnagtgtga GCCagataaa tagaggtgtg CACAgataCa	400
(2) INFORMATION FOR SEQ ID NO: 2980:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2980:	
TTTCTGCTTT TGATAATCTT TCATCAATGC AAAAGCTACA TTGGACAGTC CTATAATGGA	60
AATAATGTTT ACAATTGCCA TTAAGCCCAT AAATAAGTCTGCCGTATTCC ATACTGTTTC	120
TGTTTTTACA ACTGCACCGA CAAAGACAAG TACTACAACA AGACATCTAA AGATAAATAA	180
TATTACACGG TTTGTTGATA AAAATTCAAT ATTAGATTGA CCGTAATAGT AATTACCTAC	240
AACAGATGAA AATGCAAACA GTGnAACGCT TATTGGTTAA GAAAATACCT CCAGCAGAAC	300
CTAAATGCTC CTTAAGTGCC GATTGGGTAA CTGCAACACC nTGGAGGGCG TTTATCACCA	360
AATTINCGTC CCGAATATAG TAAA	384
(2) INFORMATION FOR SEQ ID NO: 2981:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2981:	
AATTCTAACG ATATCACCAT TTTTACAACC ACGTTCTCTA AGCGCATCAT CAATACCCAT	60
CGAACGCATT TGACGAGCAA ATCGACGTAC TGCTGGATCA CTGTTAAAGT CAGTCATTTT	120
AAACATTCTT TCAATAGCAT TACCACTTAC CACATAAGCA CCATCATCAT CTCTTGGAAA	180
TTGTAAATTT ATCTTGTGAC GGTGTATGTT TATATAATAC TCGGTTAATG CCAACTGACT	240
CCTCTTCTTC AACTGTGGAG TCAACATCTT TATATTCTTC TAAATTTATC TGCTTATTGC	300
ATATGAATAA TTGnnCAATG ATTATCACGC GTTATTGTTG GAAACTGGGA TTAACTGGCA	360
CAnCTTCGGC CAATTTCTTG	380
(2) INFORMATION FOR SEQ ID NO: 2982:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 389 base pairs (B) TYPE: nucleic acid

(C)	STRANDEDNESS:	double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2982:

CCTCAACCGC TTTACAGCCA ACCGGCGAGC GCTGNACATG GATCGCCTGG CCCATGCCCA 60

CGCCTTGGGC NCATCATTAT TAATTGCTGC AGTTACGGTA TCTTTAATTG CGTTAAATAA 120

ACCTTCCATT GAAAACACTC CTTAAAATTT AAATTTGAAG ATAACAAAAA CGTGCGTACT 180

TTNTGAAATC ACCGAAATGT TATTCGCTTA ACGTTTTGTT GTTGTTATTT TAAAATAAAT 240

TTGATGCAAT TAGTTTGTTT ATCCGCACAA CATCTTATAA TGTACTTAAC TGTATTTTAA 300

AGAGAAAAGA AATACAGTTA GGCATTCCAA AACTGTGATT TTAACACAAT TAAGTTGGCC 360

TGAATTCCGT ATTTGAAGTC CTAATGGAA 389

(2) INFORMATION FOR SEQ ID NO: 2983:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 379 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983:

ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGAT AAGAAAAGAT CAACCGGTAT 60

ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAAAATG 120

GATATACAGA TATCTATATG TTAAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT 180

CTAAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT 240

CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAAGT CTGTTACTAT ATTTCTCTAG 300

CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGnC CCATTTCCAT 360

CGnGnTCCAT TACCGCCAC 379

(2) INFORMATION FOR SEQ ID NO: 2984:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 374 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2984:

ATGCTGAAAA TATGTGCCG TTTATATGAA TCAATTTGAA TCCGAACATA ATCCGGATAC 60

ATATTTCAT ACATTGGGAC	CCGAATTGAC	TTCAGCATTA	CAGCAAATTG	ATTATTTTGT	120
GGCTGGTATT GGCTCTGGCG	GTACATTTAC	AGGTACGCAC	GTTATTTAAA	GCAACATCAC	180
GTGCAATGTT ATGCCGTTGA	GCCAGAAGGG	TCCGTGTTAA	ATGGAGGGCC	AGCTCATGCA	240
CATGACACTG AAGTATCGGT	TCTGAGAAAT	GGCCGATATT	TTTAGAGAGA	CGCTTGTAGA	300
TGGGnTATTT ACGATTAAGA	TCnAGATGCC	TTTCCGAATG	TCAAAGTTTG	CTATAATGAn	360
GGTGTAGTAA GCAG					374

(2) INFORMATION FOR SEQ ID NO: 2985:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 464 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 2985:

GGAGCCACCA	TTGGAGCAnG	TTACGGTGGA	AAAGATACGG	nAAGGTTnGT	ATGACTGTAn	60
GTCTTGGATA	GAGTAACAAA	CCTAATTTGT	TAACTCTAGG	CCCCATATGT	CGCAGTACCA	120
TCTGCATGTG	TTGTTAcATT	GTATGCATTT	GTTTTACTTG	GCTTCTTGtA	TGTCGGGCGA	180
GCTCCGTATG	ACACTIGACC	GTTTGCATGT	GTTGTTACGT	TGTATGCATT	TGTTTTGCTT	240
GGCTTGTTTT	GTGTTGGGCG	AGCGCCATAT	GATACTTGGC	CGTTTCCATG	TGTTGTTACG	300
TTATATGCGT	TTGTTTTGCT	TGGCTTGTTT	TGTGTCGGAC	GAGCTCCGTA	TGATACTTGG	360
CCGTTTGCAT	GTGTTGTTAC	ATTGTATGCA	TTCGTTTCGC	TGGCCTCCT	GTATGTCGGA	420
CGAGCTCCGT	ATGATACTTG	ACCATTGCAT	GGGTGGTACG	TnnG		464

(2) INFORMATION FOR SEQ ID NO: 2986:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 359 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2986:

TAAAAATGAA TCATCGCCAA GAATATCTTT TTCATAATTA ATGCCTCCAA CGATATAATT 60

AACTATTATA TTAACATACA ATGTAGGGAT GTGATGCGCG TGAAGTTTAG GGATAAAGAT 120

AATCGTCAAG TTAATTTGAC ATTTAAAAAAG GATAATGAGA TAGCAGATGG CAATCATGTG 180

CTAGCTATTC CAACGTTTAA AAATCAATTG CTTTTTACCA AACATAATTT ACGGGGGATT 240

GAATTTCCTG GTGGTAAAAG GGAACGCGGG GNAAAGTAGT GCTGGAAGCA GTTACACGTG 300

		_			
AATTATATGA	AGAAACAGGC	GCCAAATTGA	AAAATGnTTA	TTACATAGCA	CAATGTnCC

359

- (2) INFORMATION FOR SEQ ID NO: 2987:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2987:

TAGAATTCTT CTAATGAATG AGCTTCTTTA GAATGATAAC CATAACGAAT TCCGTCAAAA 60
CGAGAAAGGT TTGACGAAGC TTCTGATGAT GCAATCACGT AATATGATGG AATACCAAAT 120
TTAGTATTTG GCAATGATAC TTCCTCAACG ACAGCACCTA AAGATTTTAA AGTTTCTACA 180
GCGTTTTGAA CTGCTTCTTT TACGTCATCA GCTACACCTT CACCTAAGTA TTCTTTAGGT 240
AATGCAACTT TTAATCCTTT AATATCTTTT ACCAATTTCA GATGTAAAGT CTACATCATC 300
AACTGGTGCA CTTGTAGAGT CATTAACATC TGCACCAGAA ATAGCTTCTT AATACGGTTG 360
CATTATCTTT TACANTTCGG GTCATGGNCC CATTTTGGTC 400

- (2) INFORMATION FOR SEQ ID NO: 2988:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 377 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2988:

ATTCATTCAT AATTATCAAT CCTTTGTGTT AAATTACTAT ATAAATAGTG TACGNATTTT 60

CGAAATTTGT GATCATAAGT TTATTCAATG CTAAACAATA AGGTTGAGAC ATAATCGTAT 120

CTCAACCTTG AAATTATTAT ACGTTGACGT CACTAGTCAT TCAGTTTTCT TAATGCTGCT 180

ACAATCTCTT TTTTAGTATC TTGTACTTCA GAAGCTTGCT TAATCACTTT TGCAGGTGTA 240

CCAGCAACAA CTGCACCAGC TGGTACATCT TGTGTCACAA TCGNGCCACT GGCAACAATA 300

GCACCTTTAC CAACACGTAC ACCTCTAAAA TAACTGCATTGCACCGTTAA TACATCATCC 360

nGATTATAAC CGTGGAG 377

- (2) INFORMATION FOR SEQ ID NO: 2989:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 356 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2989:							
CCAGGNACCT GGACACGCCG GGTCTTATCA TCAATAATAG TAGCATGACA AATCTACTAT	60						
TTTTTCGCTA ATAAGTGGAT GTAATGCTAA TAATGTTGCT GTAGGGAAAC AGCCAGGATT	120						
AGAAATGAGC TTCGTTCCAT TGTTATCAAA CGATTGCCAT TCTGAAATGC TGTAAATAGT	180						
CATGATTCAA ATCATCTTGT GCCTGCAGCA GTTTCTTTGT AATATGCTTC ATATATTTCA	240						
CGnTTCTTAA TTCTAAATGC GCCAGATAAA TCGATAACAT GAATACCTTT TTCTACTAAG	300						
GGAGGGATAC ATGTTTTACT TACGGGTGCT GGTGTCGCAA AGAAAATTAC ATCAAn	356						
(2) INFORMATION FOR SEQ ID NO: 2990:							
(A) LENGTH: 349 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear							
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2990:							
TCATTTTCCA AGTGAGACTC TGCTCTTGCT TTGGCTAATT TAGCTCTTTC AACATCAATT	60						
TCTCTTGCAG TTTCTGCAGT CTGAACAATG ATTGAAACTT TATCTTTTCT AACTTCAACA	120						
AAGCCATCGC TTACAGCAAT ATATTCAGTT CCATCGGGA AATTTCACTT TTACAAAGCC	180						
TGTTTTTAAA GCAGCTACAG TTGGGAATAT GTCCACTCAT GACACCTATC TCACCAGCTG	240						
TTGTTTGCAT AACAACGAGT TCAACATTAT CACGATTGTA AACAGAACCA TTAGGAGTGA	300						
CAATATCTAG GTTTAAATGT CCATTATCCA TTCCnCcnGA ATTGGnTGA	349						

(2) INFORMATION FOR SEQ ID NO: 2991:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 363 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQID NO: 2991:

ATGGCCACGT TCATGCCAAT AGCTGTCGTA GTCGCATTTT CACGTTCTAG TATTGCATTT 60

TTTAAATGCG ATGTGTGCTC TACATAACGG CAAATTTTAA GTTTATGAAT CAACATATCA 120

ATTGCTTCGT TTCGAGACAT GTCGTGGATC AGTAATTATC ATAGTTTGTT GATCAAAAAC 180

ATGAGAAGGT TTATTGAGAT GTGAATGTTT CGCGGTGTTA TCTACATTGT CAACCTCTGT 240

ΔΑΟΨΟΘΨΟΤΑ	ттссстттта	ΑΤΑΑΤΑGΤΑC	AGTAGTDCAT	TGTnGACAAG	ACTnACCGAC	360
тта	11000111111			1011101101110	nermeedne	363
TTA						363

- (2) INFORMATION FOR SEQ ID NO: 2992:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 349 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2992:

AAGTTTATTT TAAAATTCGT AATAAAAATA ATAAACTCAT CGAACGATTT AATGGTCTAG 60
GTTTCCATAT CAACTATGAG TACATTAAAT TCAAATTCGA ATCACGTAAC GTAAAAGATC 120
AAACAATCCC TGAATAAAAC ACCAAGCAAA TACCCTACAG TACATCATTA GCATGTATG 180
TGGGTTTTC TACTTTTGT AAATATTGAN AATTATNAGT AGTTGTTTTT TACTATTAGG 240
GCAGAATGCT TTACAATAAC ATGCAAGTGT CAATTAAGGG GAGCACTTGC ATAAATAGTA 300
TAGGNGAGTG AGTAGTCCTG GCCATTTCCT GGAATTCCTT AATCGGCAC 349

- (2) INFORMATION FOR SEQ ID NO: 2993:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 399 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2993:

TTTGTGCAAT AAGCGCTTTT TGTTCGTTTG CTTTTGTTĞC TAATTCATCT TTCGCAACAT 60

CTTTAATTGT TGTATCTGCA GTAATACCTT GAATATCAGC AACTGCTTGA TCTTTAATTT 120

GCGTAACATC ATTAGTTGTT TGTGCATTTA AGATATCTTG ATACGCTTTT TCTTTAGCTT 180

TTAAAACTAA ATCTTTTGCT GCATTTTCT CTTAGTTGT AGCACCAGTT GTATTATCAA 240

TTGCTTGATT TTGAGTTGTC ACAGCTTGAT CAACATCATT TTTAGCATTG ATTTAACCGC 300

TGTGCTGGTT GCGGCTTGAA TTGAATCTTC CAGGCTTCGC TGACTACACA TACACAGTGA 360

GnGnAATATT TCGGCTGAAC GCGTGCATGT GAANGCTCT 399

- (2) INFORMATION FOR SEQ ID NO: 2994:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 326 base pairs

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2994:	
AATGACAGGA ATCGTCGTTG CCTTTACTAA TTGACCAGTT AATTCAAAGT TAGGTCCGGA	60
CATTTTGCCA TCTTTAGCAA TATCAGTATA TATAATGCCG CCAAGAGGTA TATCCGATAA	120
CCGTCTCACA AACTAAATAA ATTTAACTCT GTGTCCTCTT CCCATCCGTT CACTTTAATA	180
TCTTCTCCAT AGGCATCAAC AGATAAATAA ATGCGACCTG GAAATGTATG TGCCATCTCT	240
TTAAGCCAAT CAGTATCTTG AATACCTTTC GTTCCAACTA TGCAATAATT AATCCCTGCG	300
GCAAAGTAGT CCATGATTTG TGACTT	326
(2) INFORMATION FOR SEQ ID NO: 2995:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2995:	
CTAATGCCGA TGAGCAAAAC ACAAGCATTA GAAATTATTA AAAAAGTTAG GTACGTATAC	60
AACATTGATT TTGATAAACC GAAGTTAGAA ATGTGGATTG ATGTATTAAG TCAAAATGGA	120
GATTATCAAC CAACTGTAAA AGCGGTAGAT GTTTATATCA ACAGTAACAA CCCGTACCCG	180
CCTAACTTAC CAGCAATCAT GCGTAAGGAA CCTAAAAAAG TATCTATCGA GCCAGAGAT	240
AACGAAACCG CTACACCCA TGGGAAAATG CAGAATGACC CGAATTGTCA GACAAGGAAA	300
ATAGCGCTAG ATAGTTCATG AATAGTTGGC AGATTGGGGC GAACGATGAT ACGNCATTCG	360
ATTGAAGTCA TATCGTCGTA CTTAACACCG GACGTTnGAA	400
(2) INFORMATION FOR SEQ ID NO: 2996:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2996:	
GAATGTAAGT GTCCCTTAAG CATAGTGCTC CCACCTTAAA TTTTGTTACA TACTTTCATG	60
CAATCTACCA CAAATTACAT CTAATTCTTC TTCACCTCTT AATTTAATA ACTTAACACC	120

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

GTAACCAGAT ACACGGATGT TAACTGTGGG ATATTCTTCT GGATGTTCCA TTGCATCTAT	180
TAATGTTTCA CGGTTAAATA CGTTAATATT TÆGTGGTGA CCACATTGCA TTGCGTAACC	240
ATCTAACATA CTAGTTAAGT ACGGTTTGAT CTCTGGnTCT TTACCTAATG ATTTGGnACG	300
ATACTGATGT ATTGAAATAC CATCCTTACA GCATCGTAAG GGGTCCTAGC CACAGAACTT	360
ATGAAGAAAT GCACCTTTTn GGCACnGGCA TGCATGGGGT	400

(2) INFORMATION FOR SEQ ID NO: 2997:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 335 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2997:

ATGATATTAA CCTGTTTACA AGATGGTTGA TACTTGCGCA TGANATTTGA ATCTTCAACA 60

CCATATTATT ATGGTACATA CGAAACTGAA AATGAATCCA TAGTTACTGA CAAAGAAAAA 120

ATCTTAGTAT TAGGCTCTGG ACCAATTCGA ATCGGCCAAG GTGTAGAATT TGACTATGCG 180

ACAGTTCACG CCGTTTGGGC AATTCAAAAA GCAGGGTACG AGGCGATAAT TGTGAATAAC 240

AATCCAGANA CAGTTTCAAC AGATTCTCAA TTTCTGACAA ATTATACTTT GAACCTTTAA 300

CTGANGAGGA TGTGATGAAT ATCATTAATT TTGGA 335

(2) INFORMATION FOR SEQ ID NO: 2998:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 397 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2998:

GCATAAGTAC	CGCCACCTAT	AGTATAAGŒ	TCAGTCATAT	CATTTGTTTG	ATTTCTATAT	60
GCAGTAACTA	ACTTTTGTAC	AAAAGGATCA	TTTTTATCAA	CATAATGTGG	TGGTTGGACT	120
TTACCTAATT	TCACTTCAAA	GtATTGTTGA	ATCTCATTTG	CAAAACGATC	CATAGCTTTT	180
TCAAATTCAA	ATCCTTCTGG	GTAGCGTAAt	TGATACCGAA	AAGACCTGCG	TATTATTAT	240
CATATGTAAT	AACACCAATG	TTAGTTGTCA	CGTCACCCAT	GgACATCTGT	ATGGgAATTT	300
CATTCCCAnC	TTTTTCACCA	AAATCnGGAA	TTGAAATAAG	TGAGCGATTA	CGAAATGGCG	360
ACAAACGCCT	GTGGCATTGA	TnGAGCAAGA	TTnAAGG			397

(2) INFORMATION FOR SEQ ID NO: 2999:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2999:

60	CGACTTGGCA	ATACACGACA	TTGGTACGCA	TTTTGTCGAT	TGGTAAAGAG	AAAGCTGTGT
120	A ATGGGTGTAT	TAAATTCAAA	ATACACCTCA	GAATACATCG	AAAAACATTT	TTCGTTTAGA
180	ATCTCAGTTG	TTTTGGTATT	GTGTTAAAGA	GTTGAATCAG	AAGAAGTTGT	CAGGCTGCCC
240	AAAAGCTGAA	CAGAAGTTGA	AATGGTGGTA	TATCGGTGGT	TCCAAATCTA	AAAATGGGAT
300	TTTGATGCAA	TATGTGGTGC	GTAATCAAAT	AGAAGATGAA	CTGTAGAAAC	TTTTTAACAA
360	AAGAAGACCT	CGCCCAGGTT	AAAGAACCAG	TATATGCnGG	GAAACAGGTA	TATTGAnCGC
400			CTGGGCCCCG	AAGTCCTTAC	ATGTnAAAAG	GGATTTGAAA

- (2) INFORMATION FOR SEQ ID NO: 3000:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 506 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3000:

AACGGTAGTA TTACAGAAAG CTCTACTTAT GGTGATAATG ATACACCAGC GCCACCAACT	60
GACGAATTAG GTGGTAGTTG GACACTATGG AAAAATTTAG CGCGACAAAG TCCTGAATTT	120
GGTAATCCTG ATAAGTTTTG CCAAAATATT CCTAAAAAAA GTTGGTTTGT TTCAGCAACT	180
TCTACAACAA ACAATAAAGA GATTATCGAT ACAATAGAAA GTATTTGTAA ACGTGACCCA	240
CTTGCAGGCA AAACAGTTAC AGGCGGTATT ATTACAATCA ATGATTCTGC ATGGCAAATG	300
AGTTTTACAA TCAATCGTCA GCMACAGTTT aAAGACCAaC CTGrAAATGA AaTATCTACA	360
TGGATTTATG CCTTATATyC AGATGTAAaC G@GATTATA TTAAAAAGCC AATTACAGAA	420
TGTAGTGGTA ATGAAATATG CCAAGNATGG CTGTATCNCT TNGGTGTATC AACTGACAAG	480
ATTGAAGACT TAGCAAAACA TGCGTC	506

- (2) INFORMATION FOR SEQ ID NO: 3001:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 353 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3001:

,	ATTGATGGCA	TCGAAAAACT	TTAATAAGAC	AACAAGTTGA	TGAGATATAT	GATATAGGT	60
	TTGGCATGGA	TTTCGATTGC	AGTTAATTAG	AATAGCTCAA	TGCTATAAAT	GTAAGTAGTT	120
	GATATGAAGA	AACTAATGAA	CTAAATGCAA	GTATTGTCTA	AAACAATCAT	TTTATTGAAA	180
	TTTAGTAGAG	CTGAAATTAA	TATAACGTCG	TTAATTGAAT	AACGCTTATG	TTATAAGAGC	240
,	ACTCATACCA	nACCATAATC	ATCTATAGnT	ATAACAATTC	ACGTATAAGG	GGCTGTGTTT	300
•	GGCATAGCCC	TTAGGTATAC	ACCTAATTCC	CATTAAAATA	GTAGGGGnTT	AAA	353

- (2) INFORMATION FOR SEQ ID NO: 3002:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3002:

CAACAAAATG	TCTATATGGT	AAGTGGTAAA	ACGAAAAATG	ATGAAGACTA	TTCATCAACT	60
ATTTTATATA	ACAACGAAAA	AGAATTACA	AAAATTACTG	ATGCTGCTAA	AAAGCAAAAC	120
GGTGTAAAAT	TAACGATTAA	AGAAGAAGAA	AAACAAAGTG	TCTTTGTGAG	TATACTTTCA	180
ACATTAATTC	CAGTTGTAGT	CATAGCGTTA	TTATTTCTTC	TCTTCCTAAG	CCAAGCACAA	240
GGTGGCGGTA	GTGGCGGTCG	TATGATGAAC	TTTGGTAAAT	CTAAAGCAAA	AAT G ACGGT	300
GATnAATAAA	CGTCGTGTTC	GTTTCTCTGA	TGTAGCCAGG	GGCCAGATGn	AGGAAAACCA	360
AGGnTTAATT	GGAAATTGTT	GGTTTCTTGG	AAAGGTAATG			400

- (2) INFORMATION FOR SEQ ID NO: 3003:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3003:

ATAACATCGG CACAGCAGCT AAAATAACCA TACCCAAAAT GANTGTATCT TTAAACGTGC 60
ACCGTAAAGN CTTCCGACTA GCCATGTATA AGCTTTGGCA GCAGATAATT GCTTCGTTGT 120

AATGAGTAAT	CCTTGGACAA	GCGCAATAAA	CAACGTTTGC	ATCGAAATAC	CGATGATTAT	180
GAGTGTTGTC	GGGCGTATTT	GTCCTTTCGT	TTGAAACACT	AATAGTATCA	TCATTGCAAC	240
TGCGCCACCT	AATACTGCAA	ATAGTGGAGT	AAATGTATTG	TTAAAGGCTG	AAAATGCAAT	300
AAAGACAACA	GCACTTAAGC	TAGCACCACC	TGTGATACCG	CTAATATCAG	GTGAGGCCAA	360
TGGnnTTTTT	TTATACATTT	TGGCAACATT	TAACCACTTC			400

(2) INFORMATION FOR SEQ ID NO: 3004:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3004:

CTAATAACAA ATGCGATGAT GATTAATACT AATTTACCTG CTGCTAATACAGAATCTCCA 60
AGGAATGAGA AGAATGGTTG ACGTTCAACT TCATTGTTTT TAAGACTGTA GATAATACT 120
TCTTTCTCTT CAACACTTAC TGGATTCAAC AAGCATGACA CAATAATCGC GTTAACGGAT 180
ATTTAGTGGA ATTGCCGTTA GTACCAGTTC TCCTGGTACC ATTTGTACAT ACGCACCTAC 240
AATAGCTCCC GATACAGAGC TCCATTGACA TCATTGCGAT TGTTAATACA CGCATTTCAT 300
TnCAGACGTT TTAGTTGCTC ACTTGGATAC GGGCTAANGC TTNCGTGAAT TGCC 354

(2) INFORMATION FOR SEQ ID NO: 3005:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 378 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3005:

GGTCAGCTTA TTGAACAAGG GACACGTGAA TCAGTCTTGC ATCATCCAGA ACATGTTTAT 60

ACGAGATTTA TTATCAACGA AGAAGAÆAT TAATGATCAT TTTAAACATG TGATGAGGGG 120

TGATGTACAT GATTAAAATT AAAGATGTTG AAAAGTCATA TCAAAGCGCA CATGTTTTTA 180

AGCGTCGTCG AACACCTATC GTGAAAGGTG TGTCATTTGA GTGTCCAATC GGTGCGACGA 240

TTGCGATTAT CGGAGAAAGT GGTACGGnTA AATCGACGTT TGAGTCCTAT GÆATTAGGT 300

ATTGAGGAAC CGGATAAAGG TTGTGTACCC TTAAATGATC CACCGATGCN TAAGAGGAAG 360

TGAGCCGCCA CCNATTGG 378

(2) INFORMATION FOR SEQ ID NO: 3006:

- (A) LENGTH: 1785 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3006:

60	TTAGGCGGTT	TAAAGCCCCC	TATTGGGCCT	TATCCGGAAT	GCCAAGCCTT	ACnTTAGTTG
120	ACTGGAAAAC	GTCATTGGAA	ACCGTGGAGG	CCCCgGCTCA	GATGTGAAAg	TTTTAAGTCT
180	AGAGATATGG	TGAAATGCGC	TGTGTAGCGG	TGGAATTCCA	AAGAGGAAAG	TTGAGTGCAG
240	TGCGAAAGCG	GACGCTGATG	GTCTGTAACT	CGACTTTCTG	GTGGCGAAGG	AGGAACACCA
300	AGTGCTAAGT	GTAAACGATG	AGTCCACGCC	ATACCCT@T	ACAGGATTAG	TGGGGATCAA
360	GCCTGGGGAG	TAAGCACTCC	AnTAACGCAT	TAGTGCTGCC	TTCCGCCCCT	GTTAGGGGGT
420	GGTGGAGCAT	CCGCACAAGC	TGACGGGGaC	TCAAAGGAAT	AGGTTGAAAC	TACGACCGCA
480	TTECAACTC	TTGACATCCT	TTACCAAATC	GCGAAGAACC	TCGAAGCAAC	GTGGTTTAAT
540	TGTCGTCAGC	GGTGCATGGT	AGTGACAGGT	CGGGGGACAA	GCCCTTncTT	TAGAGATAGA
600	CTTAGTTGCC	AACCCTTAAG	CAACGAGCGC	TTAAGTCCCG	AGATGTTGGG	TCGTGTCGTG
660	GGTGGGGATG	ACCGGAGGAA	CCGGTGACAA	AAGTTGACTG	TGGGCACTCT	ATCATTAAGT
720	GGACAATACA	GTGCTACAAT	GGCTACACAC	TTATGATTTG	ATCATGCCCC	ACGTCAAATC
780	TTCGGATTGT	TTGTTCTCAG	TCCCATAAAG	GTCAAGCAAA	AAACCGCGAG	AAGGGCAGCG
840	GCATGCTACG	TCGTAGATCA	TCGCTAGTAA	GAAGCTGGAA	TCGACTACAT	AGTCTGCAAC
900	TTGTAACACC	CCACGAGAGT	GCCCCCACA	TGTACACACC	TCCCGGGTCT	GTGAATACGT
960	ATGATTGGGG	GGTGGGACAA	AGCCGTCGAA	TTTAGGAGCT	GGAGTAACCT	CGAAGCCGGT
1020	TTTCTAAGGA	GATCACCTCC	GGTGCGGCTG	CGTATCGGAA	ACAAGGTAGC	TGAAGTCGTA
1080	ATTCAGTTTT	GACATATTGT	GGAATAACGT	CAGAAGATGC	ACATCTTCTT	TATATTCGGA
1140	AGCGCACGCC	AGCTGGTTAG	CCTATAGCTC	AAAAAATGGG	TTAACATTCA	GAATGTTTAT
1200	GTACATTGAA	ACCATTATTT	ACTTAGGCCC	GTTCGAGTCC	GAGGTCGGTG	TGATAAGCGT
1260	TAAAGAGTTT	ACCGAGTGAA	ACCAAGCAAA	TATAGATTTT	GTAAGTAAAA	AACTAGATAA
1320	TCACAAGATT	GAAAGAACAC	GCTAGTGTTC	AGAAATAATC	TGAATTCATA	TAAATAAGCT
1380	GTTAAATTAT	CAGACAATGA	AAACGTTTAG	TTATAAAAGA	TTAAATCTTT	AATAACGCGT
1440	AAGCCGTATG	AATGAAAACG	CATTTAAAAT	TGTAAATGAG	AGTTTACTTA	TTTAAAGCAG
1500	AGCTAGATCT	CATATCTAA	TGTTGAATAT	ATGnnnGATA	ACTTATAAGn	TGAGCGTTTG

AAACTTTGTT	CAAAATCTTC	AATCGTCTGT	TTCGGTAAAT	GATACATTAA	ATCTAAACTG	1560
ATTGATTTAA	TACCTGCGTT	TTTAGCATTT	AACACCGAAG	TGTAAATATC	TTCAGTATTG	1620
TGCGTTCTAC	CTAAAACAGA	CAATAACTCC	GGCTTGAATG	TTTGAACGCC	CATTGAAATC	1680
CTTTTTACTC	CATATTTCTC	TAATAGTTGG	ACTTTCTCTT	TAGTTAACTC	ATCAGGATTT	1740
GCTTCAAATG	TATACTCGCC	TGTGATTGTA	AACGTATCAC	GTATT		1785

(2) INFORMATION FOR SEQ ID NO: 3007:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 360 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3007:

TGCAAAAAC ACAATAACGA TAAATGTTCC CATTGATCCT ACAGCATCGC GAACATTTTA 60

CCTAAGTCTT TTGTATTTT AATTTCTTTG CTTAAAATCC CATAAACTAA TCCAGGTACT 120

AAAAATACGA CAAGAATAAT TAATCCGACA CCGTTAATTA ATGGCGATCG TCTAGTAAGC 180

TGCCTGTTTT AGCATTTCTT AAAAAAGCTAT GTCAGGAATG GCTGTAATAA TTAATAAAAT 240

AATTGAGCTA TGAACTGATA TTTGCCATTT TAAAAAATGT GCTCTTGTC AGAATATGTG 300

AGATGTACTC ATGGCATCAT GCATTAAACT GCATCATATT TTCCTAATCT AGGATAATGA 360

(2) INFORMATION FOR SEQ ID NO: 3008:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3008:

TTGCCTTCAA ACACATACTT GTAGTCGGAT GATCACCTGT TCCAAAAGnC ATACCTGGGT 60

CGAGCTCAAT GCAAAGCTCT TCATCCGCTT CTTTAGCATA TGTTTCCCAA CTAGGAACTA 120

TTGTGAACTT CTTCGACGCT CGGGAATGGA TGGAAATAGT TTTTCCATTC ATTTTCCCAA 180

TCCGTCTCTG CAATAATTTG CTCACTGAAT TGAACGTTAT GTTGATCAAG TTCATCTAAA 240

TTTAATAACT CATCTTTGAA TTTGCTGTCG CAACTGTATC ATCATAAGTG CATTTCAGTA 300

AAATAGGCTT nGCAAnCTTA CTCCCTTATC TGGGATAAAG CCTCGGTTTT 350

- (2) INFORMATION FOR SEQ ID NO: 3009:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs(B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3009:

TCTTATATCA CCAGGAATTA ACACTGCCTT TTGACCACTT TCTTCAATCA CTTGGCGTAC 60

TTCTTGTGCA TCTTGTTCTT CACTCGGAAG ATAGTTAATC GCTACATCTG CACCTTCTTT 120

AGCATACGCA ATTGCTGCTG CACGCCCTAT TGCTGAGTCACCACCTGTGA CTAAtATTTT 180

ATAGCCTTGT AAGCGTTGAT GACCTTGGTA AGACGTTTCG CCACAATCGG GTGCTGGCGT 240

CATTTCAGAT TGTAAACCCG GTACCTCTTG TTCTTGTTTT TCATAATCCG TTGTTTTAAA 300

TTTTGTTCNA GGATCTkGAG CkGCCAtTTT TtGACAYCTC CGTATnCGCT TAATGGGTAT 60

CATTTACCCC AATCTTCCTA AGG 383

(2) INFORMATION FOR SEQ ID NO: 3010:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 388 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3010:

TAATTCAACG GGAATTTCC CTTTGAAGTT AACATAACGG TAGGCTGCTT TAACAGCTTC 60

ATCATCGGGC GCTTCGACAT CTTCTAATTC ATATGCAATG CCCAATGTTT TCCACTTATG 120

AACACCTAAC TGATGATATG GCAGAATTTC AAACTTTTCG ACGTTATCAA GAGAATTAAT 180

AAATTCCCCT AGTTTAATTA AATCGTCTTT ATCATCAGAA ATAACCAGGC ACAAGGGACA 240

TGTCGAATCC ATACCAGGTG GTTTCATATC TGACAGTTTG CGCGCGAAGT TAAAGGATGT 300

GTGTATTAGG GCTTTCCCGG TCCATCCAAA TANGGTTGGT CATTAATCC ATAAGGTTTT 360

ANAATCNAAA TAATAATCCA GTCCGGTA 388

(2) INFORMATION FOR SEQ ID NO: 3011:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3011:

ACTGCTGTAA	CGTCAGTTGA	TCTTTTCATT	CTTGGTTTAA	TTTCTGAGAC	GTTACTTGGT	60
TGnGCnAnGC	CACCAATTGC	CATACCGACA	GATTGGAAGA	ACAATGCATC	AGTTCCACCA	120
ACACCAAAGA	TGTCACCAAG	TACAACGAAA	CCTACATATC	CAACTGTAGA	TACAATTAAA	180
ATACCCATTG	CTTTTTTAAA	TTCAGGATTA	TCTGATTGAC	GTnCATTTTT	AGCTTTAAGT	240
GAAGTAAGTG	CTACACCAGT	AACTAATAAT	ATCATGGCGA	TTAAACCAAA	GATAATTTGA	300
GTCATTGAAG	ACCATTCACC	TAAAAAGATA	ACGCTGGAAT	AATGGTGTAC	CCAACTAATT	360
GGCATACCTG	GTAGGAAACT	GGGCATAGGT	ATTTGGATAC			400

(2) INFORMATION FOR SEQ ID NO: 3012:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3012:

60	GAT GATAACAATG	AGATGTAGAT	GCAATAGTTT	GGCGGTTTAC	CGTTAATACT	TTATCGGATT
120	CT AACGGCGAAA	TGTTTTCACT	CTAGAAAGT	GAGTTCGAAC	ATTTAAAGAA	TGCCTATTAA
180	AAC CAACAAAGTG	TGCATCAAA	ACGTACCGAA	GAAAAAGAAG	TAGCAATTTC	TTAAATACAA
240	CAA ATGCAGGTGG	GAGTATGCA	GAATGGTTGC	GAACTTCGCG	AAGTGATGAG	CGTCAGATTT
300	AA CACCACAGTT	GCTATGTTAA	TCAACCAAAC	TGGGATTAGC	GTATTAACAA	CACAGTAAAC
360	AGT GTTTCCACTT	AATAATGAGT	AGGGGnCGTT	ACCAGTACTG	AAACTACCAA	GACTGACTGG
400			ATTAGTGTCG	CTTAAACGGC	TTTTGTTGGT	AAGCATAAAC

(2) INFORMATION FOR SEQ ID NO: 3013:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 389 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3013:

GGCTGTAATG AAAATCCAAA AGCCAAGCTT ATTTAATTCG CCTTCATGTG TGCGTGAATC 60

AATAGTGTTT GTATCATGAC TCATGACTTA CAGCCTCCCT TTCTTTAATA CGCGCTTCTC 120

TTAATCTAGC TTCAGTTTCT GCAACTTCAG CAGCAGGGAT ATGATATCCG TGATCGATTT 180

GGAAACTGCG ATAAATCATA GTACCAAAAA TACCGAATAA ACAAATTAAT GCTGGAATTA 240

CAGTTTCGAA AATTAAGAAG AAACCGCCGA TAGTCATAAAGATACCAATC CAGAATCCAA 300

CAGGAGTAAT GGTTTGGCAT ATGGATGGCC TTGGnAATAA TGGGTTGnCC TAAGTAATGG	360
CCGACCAAGG TCCTTTCCAn ATCCACCAA	389
(2) INFORMATION FOR SEQ ID NO: 3014:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014:	
AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC	60
TTTAATTTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TCACTGCTTT CAAGTAATGG	120
ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA	180
TTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT	240
TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG	300
CACTCATACT nGTTGCnCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT	360
GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG	400
(2) INFORMATION FOR SEQ ID NO: 3015:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3015:	
nCCTATCTCT GGTCGAGAGT CTTTGAGCTG AAAAAT&GA CACACAAAAT TGCAATGGnA	60
TCAACAAATG TTTCCCATTG TGGATGGTCT TGACTAAGTA TTTGGTGTTC AACTTGGTGA	120
TTTGCCATGA CTAATACCAT GTCATTTGTA CTTGTATCGC CATCAACAGT AATCATATTA	180
AATGTATGGT CAGTCGAAGA TTTTAATAAT TGATGAAGTG TATTCGATTC AATCGATGCA	240
TCGGTTGTTA TAAAAGCAAG CATGGTAGCC ATATTTGGGT GAATCATACC TGAACCTTTG	300
GTGCTACCAC CAATTGTAAC GGTTTACCAT CGATTTTAGT GATACAGCGA TATGTTTTGT	360
ACAGGTATCA GTGTTAAAA	379
(2) INFORMATION FOR SEQ ID NO: 3016:	

(A) LENGTH: 400 base pairs

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3016:	
CATATAAATT GCTAACGTGC CACCATTCAC TAAGGAATTG ACATCCACTT CATTTTCTTC	60
TGAATCTTTA AAGTGACCTG TAGAAAATGT CACACTTTTA GCAACTGTAC GCATTGTCAA	120
ACCTGTCTGC ATAGTAGCAA CTGCTGCGCT CGCTGATGTC ACCCCTGGTA CAATTTCAAA	180
CGCAATATGA TGTTCATTTA GTATGTCGAC TTCTTCTT© ACACGACCAA ATATCGCTGG	240
ATCGCCAACT TTAAGTCTAA CAACCTTGTT ATATCGACGC GTGCTTCCAC GATACAGTCA	300
TTATTTTTCT GGCGGAAAAT GTTTGGAAAC GGCTTTTACC AACANGGTAA TTCAGAGGCA	360
ATCGCAATGn AAATTACGGn TCACnAACGG TCATTGGATG	400
(2) INFORMATION FOR SEQ ID NO: 3017:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 3017:	
CCTTTTTCTC TTCTTTCATA TCTGCAAACG TGCATCAATT TTAGGATCTA AATCTCCAAA	60
TGCTTCTGCA ACTGGTTCAG AGCGTTCATA ATACATACGA ACTTTTGGAT ATAACGCTTT	120
GCTTGGGCCA TATCATTATT TTCAATCGCT TTAACAAATT TTTCTGTACC TTTTAAAAAT	180
TCATTTAACT GTTCATCAGT ATATTTATCA TATGCTTTTG TTGCTTGTTT TAATTCTGCT	240
TTAACACCAT CATCTTTTTT CGATGTCTTT GAATCATCCT TCTTACTATC GTCGTTCCCC	300
ACATGCAGCA	310
(2) INFORMATION FOR SEQ ID NO: 3018:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

60

120

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3018:

TCGCTTTGTA AATTCTGGAA CAAAGnCAGT CATG&AACA ATTCGTGTTG CACGTGCATA

TACTAAAAGA AATAAAATTA TAAAATTTGC TGGATCTTAT CATGGCCATT CTGATTTAGT

ATTGGTTGCA	GCAGGTAGCG	GCCCATCTCA	GCTCGGTTCT	CCAGACTCAG	CTGGTGTTCC	180
AGAAAGCGTC	GCACGTGGAA	GTCATTACTG	TACCTTTCAA	TGATATTAAC	GCCTATAAAG	240
AAGCAATT G G	AATTTTGGGG	TGATGAAATT	GCCGCAGTAT	TAGTAGAACC	AATTGTTGGT	300
GAACTTTGGG	AATGGnnAAT	GCCTCAACCT	GGGATTTTTA	GGAAGAGGGT		350
/2\ TNFODM7	ערדטא דטף פו	C TD NO: 30	110.			

- (2) INFORMATION FOR SEQ ID NO: 3019:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3019:

ATATCATGTG CCAGTGAAAG CGGCACTGGN CGGATATGGC GCACATATGG ACATTATGAA 60

AGAGTACCAA TTAATCATTT TAGCGCCACA AGTTGCGTCT AACTATGAAG ATATTAAGCA 120

AGATACAGAT AGATTAGGTA TTAAATTAGC GArGACTCAA GGTGCTGAAT ATATCAAATT 180

GACACGrGAT GGCCAAGCAG CCCTTGATTT CGTTCAACAA CAATTTGAAA ATTAAGAATA 240

GGAGTTTTC ATATGACTAA AACATTACCT GAAGGATTT ATTTTTGGTG GAGCAACAGC 300

AGCATATCAA GCAGGAAGGT GCGACCAAAT TACGGGATGG GTTAAAGGTC GCGTGCATTG 360

GGGATACGGT ATTTTAGGAA GGAAAACTTA TTTGGTACCA 400

- (2) INFORMATION FOR SEQ ID NO: 3020:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 361 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3020:

ACGTTCGTCT TACGTTTAAC GCCATACGGT GTATTAGCAA TTATGGnCCA ACACATATC 60

GACAAGTGAC TTTGGCGCCA TTTGGACTTT AGGAAAAATT CTTAATCGCA TCGTACGCTG 120

CATTAATTAC GATGTATATC ATTCACTTAA TTATTTTAAG CCTGTTAGGT ATTAGCCCAA 180

TTCGCTATGT TAAAAAAGACT TTGGAAGTAT TAATCTTTGC ATTCACATCA CGCTCAAGCG 240

CGGGTGCCTT ACCAATGAAT GTACCAACAC CAACCAGACG TCTAGGCGTG CCAGAAGGTA 300

ATGnCAATTT CGCTGCGACA TTTGGAATGG CGATTGGACC AAATGGGTGG GCAAGNAATT 360

A 361

(2) INFORMATION FOR SEQ ID NO: 3021:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 356 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3021:

CAATGACCAT	GACCAGTTGA	TTTGGAACAA	TGATTGACAT	TGGAGCTATG	CATCAAGTTT	60
GTCTTTAAGA	CTACTAAACC	CACGAACCAT	GTTAACCCCG	TGGTGCACCA	TCACCAATTG	120
nCTCGATCTA	ATTCAGTTAA	TTCAGATTCA	TGTTTTTTAA	ACGTTTCTTC	TAAATTTAAT	180
AAACGTGnCT	TTCATATCAT	TCACTTTCAT	TTGTGnCCAC	CTCATAAATG	TATATTATÆ	240
TATTCACTCT	TATTAAAGTA	TGACTGTTGT	TGGTGCTAAA	AATGCTCCAA	ATATTCGGTT	300
TATTAG G C A C	GATAGTTATA	GAAAAACCTG	ACAGTCTAAA	GATGTCATAT	AATCAC	356

- (2) INFORMATION FOR SEQ ID NO: 3022:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3022:

GGGTCCATTC CATGACAACA nTGTGTGTCA	A CCTTCTAATT CATCTGCAAA TAATTTTACA	60
GTGTTTGGTC CAATATCCAT ACCTTCTTGG	ntctgctgga attgaatcag atggtactac	120
AGTGATTTTG GCATCATTAG nAAAATTCT	T TAGTCAACTT TAGTGTCTAC TGGTAATACA	180
ATTTTATCAC CATGTTTTTC TAATAAATC	TTTTGCGAGTC GGATTTTATC TTCTTCTAAT	240
AATGAAATAC CAATTTCTTT ACCTTGCGCT	TTTARAAAG TATAAGCCAT ACCTCCGCCG	300
ATGATAATTT TATCAGCTAT GTTAACTAAT	AA .	332

- (2) INFORMATION FOR SEQ ID NO: 3023:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3023:

AAAGGTATTC CACAAGAATT AGCTTTGCAA AAATGCCAAA GCAAACAGAA GATGGnACAA 60

TTTAAAGTGn	CCTACAATCA	TGAATGAGGA	GGACGCGTAA	GATGAGCATT	CGCTAGAAT	120
CGGTTGAGAA	TTTATTAACT	TTAATAAAAG	ACAAAAAAAT	CAAACCATCT	GATGTTGTTA	180
AAGATATATA	TGATGCAATT	GAAGAGACTG	ATCCAACAAT	TAAGTCTTTC	TAGCGCTGGA	240
TAAAGAnAAT	GCAATCAAAA	AAGCGCAAGA	ATTGGATGAA	TTACAGGCAA	AAGATCAAAT	300
GGATGGCCAA	Т					311

(2) INFORMATION FOR SEQ ID NO: 3024:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 319 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3024:

ATTAGACATT ACAAGGTGCA GTACGTGCAA CATATTAGAC ATATTGAATT AAGTGGTCAT 60

GnAAGGTATT GACAGTTAAA AAAGTTGAAC AATTAGAAGA AATCGAGGGC TTAATATTAC 120

CTGGTGGCGA GTCTACAACG TTACGTCGAT TAATGAATTT ATATGGATTT AAAGAGGCTT 180

TACAAAATTC AACTTTACCT ATGTTTGGTA CATGCGCnGA TTAATAGTTC TAGCGCAAGA 240

TATAGTTGGT GAAGAAGGAT ACCTTAACAA GTTGAATATT ACTGTACAAC GAAACTCATT 300

CGGTAGACAA GTTGACAGC 319

(2) INFORMATION FOR SEQ ID NO: 3025:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION SEQ ID NO: 3025:

60	TGTCGCCATC	ATGGTGGGTG	AACTGAATTA	ACTATGCTCA	AATAAATATG	GGTGCCAAGC
120	AGGTAGCATA	CTTCGAATAA	TGATAGTGCT	CGCATATAAA	CGTCTGAAGG	GTAATTGGAT
180	ATGTCTATAT	GTGAAACCCA	GGTAAGTTCC	TATTTCTGGT	TGTGTTTACG	TGTAATTGTT
240	ATGACATGTG	TAAGCTCGGT	CATGTTCTAA	ATAAnTGTGT	TACGCTATTT	TCCCATTTAA
300	ACGTCACTCT	CATGTGGGAT	GnGGGAGTAA	GTTTGGATAA	TAAAATGAAC	TATCATTTTG
320					TGTAGATACn	CATCAAGCCA

(2) INFORMATION FOR SEQ ID NO: 3026:

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3026:	
TCTCAACAAA TGCATCCAGT ACTTAAATIG GCATTATAGT AATTTAAGNA CAATATATCA	60
ATATTTCTCC TTATCCAGCA ACAGCAAATT TATTGGTAAG GTGTACGATT GAACCTTTAG	120
TCAATGAAGC AGGTACATTT GGATTGGCCA GGTGGATTTA CTTCAACTGA GCGCTTTGTG	180
AGAATGGGCA TTTATGAAAG CAAACATTGC TCAAAACAAT GATAAAGAAA TGÆTTTAAT	240
GAATGCATTT TATTTATTAG ATGCGGTAAA TATACCGATT GGAATTGTAC GTCCGCATGA	300
TGCTGACAAT CACTATACGA TGTATCCA	328
(2) INFORMATION FOR SEQ ID NO: 3027:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 322 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3027:	
TCGTAAAATA TCATGCAACA TTCAGATCAC CTCTnTCAAA TCCAACGGTT AATACTTTTA	60
ATTGAAAATA TGTGTTCTnT GTAAAATTTT AATCGTTCGC CACGATGCTG TTGATAAAAA	120
TTCAAAAACT GGAGTTGATC TTCTAGTTCA ACATAATCAT CGTAATTAGA CATGTAACCT	180
TTGATTAAGA TTTCAAGTAC ATGATCTTCG ATAGTATTGn TTTTAACTTG TTGTTGAGCC	240
GCTATATCTT CCATCGTGGA ATTGTTCAAG CAATTTTGTA TAAGTAATAT AAGTTCGATT	300
TAATGAATGT AGGTTTCATT AT	322
(2) INFORMATION FOR SEQ ID NO: 3028:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3028:	
CAAGAATCTT ATACTTATCA AAATTTATAC TGTGAAGCGA GTCTATTGGC TAAAAGACTC	60

(A) LENGTH: 328 base pairs

AAGGCTTATC AACAATCTCG TGTTGGGCTA TACATAGATA ATTCGATTCAATCGATCATT 120

TTAATACATG	CATGTTGGTT	GGCAAATATT	GAAATTGCGA	TGATTAATAC	AAGGnTGACA	180
CCTAATGAGA	TGACGAATCA	GATGAAGTCA	ATCGATGTAC	AATTGATTTT	CTGTACCTTG	240
CCACTGGAAT	TACGAGGGTT	TCAAATTGTA	TCGCTGGATG	ATATTGAATT	CGCCCnCCGG	300
GCnTATTACA	ACG					313

- (2) INFORMATION FOR SEQ ID NO: 3029:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 386 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3029:

CTTCCAAAGA AAAGACCACA	A GTTTTTGACG	CATCAATATG	GTGCAATTTT	AGAGACACTG	60
TAGTTGCAGA AGATGGTTCA	GTTGGACTTT	GAAGACAATC	GTTATACAGA	AACACGCGTG	120
CCGCTTATCC AATTAATCAC	ATTGACAATA	TTGTAGTACC	ATCTAAAGCA	GCACATCCAA	180
ATACAATTAT TTTCTTAAC	GCGGATGCAT	TTGGTGTTAT	TCCACCGATT	TCAAAGTTAA	240
ATAAGACCAG CAATGTATCA	TTTCTTGAGT	GGTTCACTTC	TAAATAGCTG	GnCAGAGCGT	300
GGTGTGACAG ACCTGACCAT	CATCTCAACA	TGTTCGnGCA	CCGTCTTCCG	E CATCnACT	360
GTTACGGTGT CTATAGGTGA	CTATCG				386

- (2) INFORMATION FOR SEQ ID NO: 3030:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3030:

TGATGGATTG	GCTAGCAGGT	GTTTACATTA	ACTCATTAAA	TGTTATTCAC	TACATGCACG	60
ATAAATACAG	CTATGAACGT	ATTGAAATGG	CATTACATGA	TACAGAAATT	GTACGTACAA	120
TGGCAACAGG	TATCGCTGGT	TTATCAGTAG	CAGCTGACTC	ATTATCTGCA	ATTAAATATG	180
CACAAGTTAA	ACCAATTCGT	AACGAnGAAG	GTCTTGTAGT	AGACTTTGAn	ATCGAGGCGA	240
CTTCCCTAAA	TACGGTAACA	ATGACGACCG	TGTAGATGAT	ATTGCAGTTG	ATTTAGTAGA	300
CGCTTCATGA	CTAATTACGT	GGTCATTÆAA	CATATCGTGA	TTCAGACCTT	CCATGGGnGT	360
ATTACCATTA	CTTCAACGTG	GTnTCGGGTA	GAAACTGGGT			400

(2) INFORMATION FOR SEQ ID NO: 3031:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 319 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3031:

nGCGTTTAAT CA	ACATCTTTT !	TGATAATGTT	CCCTTACCAT	TTCTTCATGT	GCATCTGCAT	60
AGTCTTTTCC AA	AATGGCAAA (CTAAACTGAT	ATGCAACTTT	TAAATAGGA 1	CTATATGCG	120
ACTCGTCAAC GA	ATGGCAATT :	TCAACGTCnA	GTTACGCGGA	CAAATTGGCA	AGCGCATCAC	180
TTTCTATGGC AT	FACAATTCC A	ATAATACCTA	GTTCAAAATT	CATATCTTTA	AAACATAGCC	240
ATCCAATGGA TT	TATCAAGTT (GTTCATTTTC	CGGGAAAACT	nAAACGCATA	AATGATTTGG	300
AACCTTGATT TG	STATGTGA					319

- (2) INFORMATION FOR SEQ ID NO: 3032:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3032:

AAGAAGTGGC AATTATGAT	GATGCTCTAG	CTGACAAAGG	GAAAAAAGCA	TTAGAAGCAT	60
TATCTAAAAA GTCACAAGAA	GAAATTGATC	ATATTGTTCA	TCAAATGAGC	TTAGCAGCTG	120
TTGATCAACA TATGGTGCTA	GCAAATTAG	CACATGAAGA	AACTGGAAGA	GGTATATACG	180
AAGATAAAGC GATTAAAAA	TTATACGCTT	CTGAATATAT	ATGGAATTCA	ATAAAAGACA	240
ATAAGACAGT AGGGATTAT	' GGTGAAGATA	AAGAAAAAGG	ATTAACGTAT	GTAGCGGAAC	300
CAATTGGTGT TATTTGTGG	GTTACCGCCC	AACCACCAAA	TCCCTACGTC	CGACCACCTA	360
TTTTTAAAGC CGATGGATT	GCCATTTAAG	ACnGGGAATC			400

- (2) INFORMATION FOR SEQ ID NO: 3033:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3033:

TAGCGGTAAT	CGAAATTGGG	GACTAAATTT	CGCAAAAGCG	GGTCGCACGA	TATCAGAAGA	60
GTATAATGTC	CCTTTATTAA	TGAAGTTTGA	GTTACATGGA	AAAAACAAAG	ACGTTATTGA	120
ATTTAAGAAC	AAGGTGGGTA	ATTTTAATGA	AAACCATGGA	AGAGAAAAAG	TACAATCATA	180
TTGAATTAAA	TAATGAGGTC	ACTAAACGAG	AGAAGATGGA	TTCTTTAGTT	TAGAAAAnGA	240
CCnGAGCTTT	AGTAGCTTAT	TTAGAGGAGT	AAAnGACAAA	ACATCTTCTT	CGACACTGAA	300
TCG						303

(2) INFORMATION FOR SEQ ID NO: 3034:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 340 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3034:

CTNCGCTATT TTGTAGGACA TCTTCTAAAG TGCTAGGNGA AGAGATTATA GAATAGGCAC 60
TATCAATACC GAAATCGTAA ACATGTTGAT AATTTTCGCC TAGACTGCCA CAAATCGCGA 120
TGACAGGAAT ATGATATTGT TTTGCAGCTA ACGCAACGCC TGACGGTGT TTTACCAAAG 180
ATGGTCTGAT AATCCATGCG TCCTTCTCCA GTAATAACGA GGTCTGCATC TTTAATTCTT 240
TGATGAAAAT CTGTAATGTC AAAGACGGAC ATCAATGACT TTTGTTGAAA GTTGTCTCAC 300
AAAACGNTAA TGAATGCTGC GGCCCATGAC CGGCCAGCTG 340

(2) INFORMATION FOR SEQ ID NO: 3035:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 305:

AAAGAACATG	GTGTAGCAAT	AGTCTCTGGA	GGTGGAAGCG	GACATGAACC	TGCGCATGCC	60
GGTTTTGTTG	CAGAAGGTAT	GCTAGATGCA	GCGGTTTGTG	GCGAGTATTT	ACATCACCTA	120
CACCTGATAA	AATATTAGAA	GCTATTAAAG	CAGTAGATAC	TGGTGATGGT	GTATTACTAG	180
TTGTAAAAAA	CTATGCAGGT	GÆCGTGATGA	ATTTCGAAAT	GGCACAAGAG	CTTCCAGAAA	240
TGGAAGGTAT	AAATGTTCAA	ACTGTTATTG	TTCGTGnCGn	CATTGCTGTG	ACAAACGnGT	300
ACA						303

(2) INFORMATION FOR SEQ ID NO: 3036:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 315 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3036:

GGGGAAAGTA	AATTAACAGC	TGTGTAGAAT	AATTAAGGTT	TAATTTATA	TAGAACAACT	60
TATTGTAAAC	TTTTCATTTC	TTAAAGTTTA	CAATGGTGCT	ATAATAATGG	TCATGAAATA	120
CGAAAGGAAG	GAAAAAATGA	CnACAAAACA	GTTAGTATAT	ACAGCTTTAA	TGACAGCGAT	180
TATCGCTAGT	TTAnGATTGG	TACCGGTAAT	TCCACTACCA	TTGnCTTCAG	TACCAATTGT	240
ACTTCAAAAC	AGTGGTATTT	CTTAGCAGGG	GCGATTTTAG	GACGTAAATA	TGGCACATTA	300
AGTGTTATCG	TCTTT					315

(2) INFORMATION FOR SEQ ID NO: 3037:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 330 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3037:

GCACCAATTG ACGAAGGAAT ACCGAATCCC ATTGTTCCTA AACCACCGCT TGTAA	ACCCAT 60
TGTCCGTGAT TTTTAAATG ATAAAATTGA GCTGCCCACA TTTGATGTTG TCCCA	ACGTCT 120
GTAGTAACAA TTGCTTCACC ATTTGTAATT TTGCCGATAT ATTCGATTGT TTGTT	TGTGGC 180
TTACAAAATA CTTGATCTTC TTCACCAAGT TTAAATGGGT GTTTCTGCTT ATTAT	TTTTGA 240
CAATGTTTAA CCCAGTCACT GTGTTCTATA GTCTCAACAT TTTATCATT TAAACC	CnTCC 300
AAAAAACCTT TACAnGCCnG CAAAAAAACC	330

(2) INFORMATION FOR SEQ ID NO: 3038:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 334 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3038:

GTGAGTCCAC ATAATAACTT TGACGTCCTG TTAATGTTCT AAAAGGTACT AGACGTTCTA 60

TATTCGTTGT AAATGGTGAA TATCGTCGAC CTTGTTTATT TGAACCTGGG AATACTGCTG	120
TCGGTATTAC TTCTCGTGGT TGTGAAGTTA TATTTAAAAA CGAAATTTTC TCAGCAGCGC	180
TGTCGCTAGA AATATCTTTT AACGGCATTC CAGTTTGTTC TTCGAGATCT TCATATGGAT	240
TTTTGTGnAT AATTnACCAT TCGTAGCAGA TGGAAATACT TGAGTATnGG CATCAGCGAC	300
ATTGACGTGC TGTATCAATA CGTGGACGAT TCGC	334
(2) INFORMATION FOR SEQ ID NO: 3039:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3039:	
GGTCTGATCG TGGTGAATGA AAAAGGTTCT TCTCTGTAAT GAATTATCTC TTACCGATGC	60
AAGATATTAT GAGCATGCAT TGCTCAGCAA ACGTTGGTGA AAAAGGCGAT GTTGCATTAT	120
TCTTTGGTCT ATCTGGCACT GGTAAAACAA CCTTTATCGGCTGACCCACA CCGTAAACTA	180
ATCGGTGATG ATGAACACGG CTGGAATAAA AACGGGGTCT TTAATATCGA AGTGGCTGCT	240
ATGCAAAAGC AATTAATCTT TCCAAAGAAA AAGAnCCACA GnTTTTTGGA CGCATTCAAA	300
TATGGTGCAn TTTTAGAGAA CACTGTA	237
(2) INFORMATION FOR SEQ ID NO: 3040:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 305 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID 10: 3040:	
GTGATATTCA CGAnCGTTAT TTTCAATATT TGATAAGTAG AAAnTATGAC GATCTTCATG	60
AACAGCATCT TGTTCTTCGT CAAATTCAAC GTCATCAAAA CGTTTGAAGA ATGTTTCATA	120
TGCATCAACA GATACTTCAG TACGGTTATT TAATAATGCT TTATGTGCAG CTTGGATCTA	180
AATGATCTTT GTAGCCTTCA ACTnAATGTC GCACTATAAA ATTCACCAAC TGAACCTGAG	240
CCATAACTGA ATAAACCGAT TGTTTCCACC AGCTTGTGAA TCTCGATTTT CAAGTGAATG	300

305

ATATT

(2) INFORMATION FOR SEQ ID NO: 3041:

(A) LENGTH: 317 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3041:	
GTTGTGTACC TTAAATGATC AACCGATGCA TAAGAA&AA GTGAGACGTC ATCAAATTGG	60
TGCTGTATTT CAAGATTATA CGTCATCATT ACATCCATTT CAGACTGTTA GAGAAATCTT	120
ATTTGAAGTG ATGTGTCAAT GTGATGGACA ACCTAAAGAA GTTATGGGAA GTCCAAGCAA	180
TTACATTGTT GGAAGAAGTC GGTCTATCTA AGGCATACAT GGATAAATAT CCTAATATGT	240
TATCAGGTGG AGAGGCGCAA CGTGnTGCAT nTGCGCGTGC AATATGTATT GAACCCNGAA	300
ATATATTTTG TTTGGAT	317
(2) INFORMATION FOR SEQ ID NO: 3042:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: \$1 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3042:	
AATCTTCGAA AAATAATGCA ATGCAGATTC CGAAAAAAAC AATATGATAG AAACACCTCA	60
ATTAAATACA ACGGCTAATG ATACATCTGA TATTAGTGCA AACACAAACA GTGCGAATGT	120
AGATAGCACA ACAAAACCAA TGTCTACACA AACGAGCAAT ACCACTACAA CAGAGCCAGC	180
TTCAACAAAT GAAACACCTC AACCGACGGC nATTAAAAAT CAAGCAACTG CTGCAAAAAT	240
GCAAGTTCAA ACTGTTCCTC AAGAAGCnAT TCTCAAGT& GTTATTAAAA CACGGATGGT	300
GCTAATAGCT TnGCAACAAC GTGGGCTTTA AAATTCTCCA ACTTTAGTTT T	351
(2) INFORMATION FOR SEQ ID NO: 3043:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3043:	
ACGnCCTTAC TGGnTACTTG GTTGATAAGT GTTAATCCAA ATGACGTCCT GCTACGTACA	60

GCTTTACGAA TATTTAATGC ACGTGTGATA TTTTGAGAAA ATACACCGCC TGGCTAAAC 120

ATACTCAGAA	TCATTAGCTA	TATCAATTGC	TTCTTGATCG	TCCTTCACTT	TAATCACTGT	180
TAACACTGGT	CCAAATATTT	CTTCTTGTGC	TAATTTGTGA	TGATTGTCTG	GCACnCAATT	240
AATGTCGGCT	CAAAGAAGAA	CCCTTTATCT	AATCCATTTT	CAGTTAAGCG	ATGACCGCCT	300
GCTAAAATTT	GTGCATCCG					319

(2) INFORMATION FOR SEQ ID NO: 3044:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 342 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3044:

GTCATATAAT CTAACATTTG TGTTATCTGT TAATTAACTG GNTTTTACCT TAATTTGTTA 60
CATTGNTCTG TATTAAATCT TTTTGTAACC ATTGGTTACT TTTTCAGGTG GAATTTCAAC 120
ACCCATGTCA CCACGTGNCA ACCATTAAAC CATC&ACAC TTCAAGAATT TCCGCAATAT 180
TATCAATACC TTCTGGTTTT CAATTTTAGG AATACTGAAA TGTTAGCTTT TGTTCTTCTA 240
AAATTCACGA ATTTCTAAAA CATCACTAGG TACGACGTAC GAAACTTGCT GCAATGAAGT 300
CAACATTTC TTTAATACCG AAACGGATAT CTTCAGCATC TT 342

(2) INFORMATION FOR SEQ ID NO: 3045:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3045:

TAATATCATG	TTGTGCTTTT	AGTGCTTCGG	CAATTTGTTT	TGTACTTACT	GACCCAAACA	60
ATTTACCACC	TTCACCAGTT	TTTGCTGATA	CTTCAACTTC	AATGTTTGAT	AACGTTTCTT	120
TTAATGCTTT	ACATCTTCAA	TTTCTTGTTG	GCGTTCTTGT	TTTGCACGTT	TTTTCTGTAA	180
CTCTAATTGT	TTAAGGTTAC	CTGGTGTTGC	TTCTACAGCA	TAATTCTTTT	TCAATAAGAA	240
GTTATTTGGC	ATAACCTACT	GGTACTTCTT	TAACTTCACC	TTTTTTACCT	TTACCTTTAC	300
CTTTAACAnC	TGTGTAAAAA	TTACTTTCAT	GCAGnTCACT	CCTACTTAAA	TGTTCCGTAA	360
TGCCTGTTGT	AATGTGCCAA	CGCCnCTCGA	CGTGAC&CT			400

(2) INFORMATION FOR SEQ ID NO: 3046:

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3046:	
AATCACTGTT TCATTACTTG TTCCAAATCT GNATTCAAAC TATTGTTCAA AGATTCTAAT	60
TCCGCTTTAT TTTTATCTTT AATCGCTTTT GTCATCGCAG CATCTTTAGn CATCGACTTn	120
CTGTTGCAAT AGTTTAATTT TAGAACCCGC ATCTTTACTA GCCAATTTCT CTTCATAGC	180
AATTAATGAC TTCGTTAATT GCGAAAGTGT ATCTTTTTGA TTATCATTCG CTTTTGCATC	240
TTCAAGCTTT CTCACATCTG CATTTGACAG CATTACTTGC ACTATTATCT TCAAGCGATA	300
ATTTCT	306
(2) INFORMATION FOR SEQ ID NO: 3047:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 306 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3047:	
ATGGATCATA TTAGCACGTA AAAGAAAATT CTGTTCATTA TGAAGAAGTG CCAGAnGTTG	60
AATTTAAACG CACATATGTA TGTGAAGATA TGTCTAAATG TATTTGTTTA TACAACGCAC	120
CTGATGAAGA AGCGGTAnTC GCGCGCGCAA AGCAGTTGAT ACACCGATTG ATGGCATCGA	180
AAAACTTTAA TAAGACAACA AGTTGATGAG ATÆATGTAT ATAGGTTTGG CATGGATTTC	240
GATTGCAnTT ATTAGAATAG CTCAATGCTA TAAATGTAAG TAGTTGATAT TGAGGAACTA	300
ATGAAC	306
(2) INFORMATION FOR SEQ ID NO: 3048:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 287 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3048:	
GACAGGCTAC GAGATATTTT AAACAAATTT ACATCAAATC CAGTATTAGG TGTATTGCA	60
GGTATCGTTG TAACTATTTT AATACAAAGT AGTTCAGGTA CGACATTATC ACAATCGGAC	120

(A) LENGTH: 306 base pairs (B) TYPE: nucleic acid

TGGTAACnCT GGATTTATGA CATTGAAACA AGCCATTGGA GTGATAATGG GTGCTAATAT	180					
CGGAACAnCG GTAACTGCAT TTATTATCGG TATAGATTTA GGCGAATATG CAATGCCAAT	240					
TTTAGCATTA GGTGCATTCT TGAATCTTTT TCTTTAAACG CTCTAAA	287					
(2) INFORMATION FOR SEQ ID NO: 3049:						
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3049:						
CATATAAATA GCGnTACATC GCGCCATTCT TGATCTGnAC ATATCTTTCT TAGGTCCAAC	60					
CGTGAATGAT TACGTCCATG ATAACGTACA AACGCAATTT CATTTGTGAT TCGATTGACT	120					
AAAGGTACAC TGCCATCTTT CACTTGTGGT TCATCAACTA CTGCATGAAT GATTTGATGT	180					
TCTGTTAAAA ATGCCAATGT TTGTTCTTTA AATGCATCAC TAAACCATGA TTGATGCCTA	240					
AATTCTACAC ACATTGGAAA GCTTGTAATG CTGTCTTACA TACAAATATA TTGATATTTG	300					
TGCATGCAGT CAACCAGGCG GAAATGACCA TACCATGCTA ATTTTCTGGT AnGAAGCCT	360					
ACATATCTAA A	371					
(2) INFORMATION FOR SEQ ID NO: 3050:						
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3050:						
CGCCAAATAA AGATAATACA CGTATTGGTG AAGATATAAC TGTAACTGCA CATATCTTAA	60					
TTGATGGCGA AACAACGCCG ATTACGAAAA CAGCAACATA TAAAGTAGTA AGAACTGTAC	120					
CGAAACATGT CTTTGAAACA GCCAGAGGTG TTTTATACCC AGGTGTTTCA GATATGTATG	180					
ATGCGAAACA nTATGTTAGG CCAGTAAATA ATTCTTGTCG ACAnATGCGC AACATTGAAT	240					
TTCCAATTTG TTGGAnCATA TGGGCTAACA AGGTGTTTAG GCATATCTAC TCGTCTTATT	300					

(2) INFORMATION FOR SEQ ID NO: 3051:

GGGTGCATAT GTAATGGCAA GCA

(A) LENGTH: 325 base pairs

323

(B)	TYPE: nucleic	acid
(C)	STRANDEDNESS:	double
(D)	MODOLOGY . 14-	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3051:

CCGnACCAAT	CGGTTTACAG	TTCATTGGTA	AACCATTCGC	ATGAAAAAAC	GTTATATCGT	60
GTCGCTTATC	AATATGAAAC	ACAATACAAT	TTACATGACG	TTTATGAAAA	ATTATAAGGA	120
GTGGAAATCA	TGCATTTTGA	AACAGTTATA	GACTTGnGTT	CACGTAGAGT	ÆAAAACGGA	180
CTÇAAAAATG	TTTCTCCATC	ACCAGCGCAT	TTnGAGCAGA	ACCTAACTCA	AATACGAATG	240
GTATCGCTTA	GCATATCCAG	TGCTTACCAG	TTGTTAATAA	GCGTGCGTAG	ACGGGCATGC	300
GTGCTGCAAT	GCCTAAATAG	GAACG				325

(2) INFORMATION FOR SEQ ID NO: 3052:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3052:

CTTTTAATCG CT	TTGAAAACT	ATAGGTAAGA	CAATACAAGT	AGCTACAAAG	CCATATATTA	60
CTGTTAATTG AC	CCTATGAAA	AAATATCCGC	TAACGGGTGC	CGTCAATCCT	GCGATAGCAA	120
TACCAATAAA AA	AGTACAGTC	CACGAAGGAT	AAACATTTTC	AAGTGAAAAA	TCTTTTAAAT	180
ATTTTATTGA A	AAAATAATC	ATATGCGTA	TAATTCCCAC	AAGGCATAAA	ATCCAAATAG	240
GCGTATTAAG C	TATTGTAAA	GTTTGTTACT	AAAAAATGTT	TTAAATAGTG	TnCTAAAAAG	300
CCGGCATGAA AA	ATGTGTGAC	CTGATGAACT	GAGGCTGTTA	TTGTCTTCAC	TTATTAAATT	360
TGTCTAGTCT A	AAGGTGATC	CAATCAGAAG	CAAGTCCGCA			400

(2) INFORMATION FOR SEQ ID NO: 3053:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3053:

AATGAGATGC GAAGGATGAT CAGAGAAAAA GTCTCTCAAT CAGGTGTGAA AGTCAGATGG 60
TTATCACAAC TTTGGCGTAC GTTTTCGATA TAATGCACTA GGTGATTTAA ATACGAGCAA 120

ATCGGTG						367
GGTAAAGCAG	AAGGCCCCTA	TGTAGCATTT	CnTAAAGnTG	GGAAAAGGTA	AAGCAGCATT	360
AACATTGCCA	GCGAAAAGTA	AATGGTCACA	GCTGTAGAnC	AAGGTATTTA	TAATGGGGGC	300
GCCGGATCGA	CATTAGCATT	ACTAATCCAG	AGAAAGCAAA	AGGTATTGTG	TATACACCAG	240
TATTGTTTCT	TCAAAAGAAA	GTTTCGGTAT	TACTGAAGTG	TGAAATCTGT	CTCTATGCAT	180

(2) INFORMATION FOR SEQ ID NO: 3054:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 382 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3054:

CATTTCACA AGATCAAACA AGTGTTAGAA GTGGCATGTG AATGATGTGG CACAACATGC 60

TnATTTATCT nAGCTCATGA CATGATGGCT GTTCACATTG CAAGGCGTTG ATGATNAAAT 120

AAGGAAAGGC ATTAGGAAAA AGCCACAGGG AAAACATTTC AGCAGCAGGTTCTTGGAATC 180

ATATATTCAA GTTCAACAAG CGAATGCTGT TAAATTGCCC TTTGGATGAC AATCAATTCG 240

ATATCGTTTT AAATGAAGCA ATGTTAACAA TGTTACCCAT CGCCATAAAG GAAAAAGCAT 300

TACGCGAGTA CTACCGAGTC TAAAGCCTGG GGGTATCTGT TAACACATGA TATTGTCATC 360

GTTAATGAAT CACATGCCAC AC 382

(2) INFORMATION FOR SEQ ID NO: 3055:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3055:

CTTAAGATTA GGTGTGCTTA ATTAGTACTG GCTGGGAACG ATAAAGGCAT ATTGCAAAAA 60

ATAGAACATC CATATCCATT AAATGTATTT ACGCTAAATA TTGnCGACTT ATATTTTAG 120

ACATAGAGAA GAGACAAGAC AATTTTAAC GATGCAACGA CAGTTAGGCT GAGGCAGTTA 180

AAACAAATAT TTGATACACA TGTTGnCAGA TAAAAGTCAG TGTTCCCATC AAATGCNAAT 240

TTTGTACTAC TAAAAGCTCA GCAGCGCAAC AATTAGGACA ATACGTATAT GAACAAGGGA 300

TTTAAACCTC GCTTTT 316

(2) INFORMATION FOR SEQ ID NO: 3056:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 380 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3056:

GTTCACCATC	CGTTTATTTC	AATGAAAAA	TCGACAAAAA	TGGTCGTGAA	AACTATGATG	60
CAACAATTAT	TCCAAACCGT	GGTGCATGGT	TAGAATATGA	AACAGATGCT	AAAGATGTTG	120
TATACGTACG	TATTGATAGA	ACACGTAAAC	TACCATTAAC	AGTATTGTTA	CGTGCATTAG	180
GGTTCTCAAG	CGACCAAGAA	ATTGTTGACC	TTTAAGTGAC	AATGAATATT	ACGTATACTT	240
AGAGAAAGAC	nGCACTGAAA	ACACTGACCA	GCGTATTAGA	ATCATGACGT	TACGTCCAGT	300
GACCACCACC	TGTTGAAATG	CTAAAAGCnA	TGTATCACGT	TCTTGATCCA	AAACGCATGA	360
CTTAGCAGCG	TGGGnCGTAT					380

- (2) INFORMATION FOR SEQ ID NO: 3057:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 327 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3057:

TATGTGATGG	ACTTAAAAAA	ACGAACTCAA	TTAATACAAT	GGGCTCAAGA	AAAAGAAGAA	60
CGATTTATTA	TAGAAGATGA	TTATGATTCC	GAGTTTAGAT	ATTTCGGCAA	ACCCATTCCA	120
GCAATTCAAG	GTCTATATTC	AAGAGGAGAA	AAAGTGATTT	ATATCAGEC A	ATTTTGCAAA	180
GTCTATTTT	CCTAGCTGTT	CGAGTTGGCA	TATATGGTGT	TACCCTATTC	TATnATGGAA	240
AAAATATCAT	TTCTnCAAAA	TCCACCATTG	GAAGGGCAAC	ACTGGTAACC	TGTTTCATAT	300
GGCAAAACCT	TATTGGCAAC	GTTTnAT				327

- (2) INFORMATION FOR SEQ ID NO: 3058:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 284 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3058:

CGAAAAAGGA	GAATGAAACA	TGAGGTAATA	CAACATTACA	TGCAACAACA	ATTTATGCGT	60
GTAAGACATA	ATGGAAAGCA	GCTATGGCTG	GAGATGGGCA	AGTAACGCTT	GGTTCAACAA	120
GTCATCATGA	AACAAACGGC	AAGAAAAGTG	CGACGTTTAT	ATGAAGTAAA	TGTTAGCTGG	180
TTTCGCAGTA	TGTAGCAGAT	GCGTTACTT	ATTTGAAAAA	TTCGAAACAA	nATTACAACA	240
GTTTAGTGGT	AACTTAGAAA	GAGCnGCTGT	TGAATTGGCA	CAAG		284

(2) INFORMATION FOR SEQ ID NO: 3059:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 302 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3059:

AAAGAAGCGG ATGAAGAGCT TTGCATTGAG CTCGACCCAG GTATGGCTTT TGGAACAGGT 60

GATCATCCGA CTACAAGTAT GTGTTTGAAG GCAATAGAAA CATÆGTATT GCCACAGCAT 120

TCAGTAATTG ATGTTGGTAC TGGCTCAGGT ATATTAAGTA TTGCAAGTCA TCTAATCGGT 180

GTAAAACGTA TTAAAGCGTT GGATATTGAT GnAATGGCAG TGAGTGTAGC TAGAAGANAA 240

CTTCAGAAGA NATCATTGTG AACGTTGAAT TGGAAGCTGT TCCAGGTTAA CATATTGGAA 300

AG 302

(2) INFORMATION FOR SEQ ID NO: 3060:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 330 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3060:

TTTTTAANGA CACATTGNGC TGTGTTTAAT GCATGAAAGG AACCACTGAC ATGCATNAAA 60

TCTTTGAATG GTTCTTTATC AATTCCTTCC CCCCTCTCAT GTTTTGTATC TTTAAATCAA 120

TATAATTCAA AAAGGGTCGA GGATATGAAA TCACATCTTC GACCCTTTAT TTACTATTTT 180

AATTCAGCCA CACGCAAACG GTTATTTGCT CTCTCTAAAG CTCTTTCGGC TCTATGGAAT 240

ATCAGTATTG TCGTCAATCA TTTTCCAAGT GAGACTCTGC TCTTGCTTTG GCTAATTTAG 300

CTCTTTCAAC ATCAATTCT CTTGCAGTTC 330

(2) INFORMATION FOR SEQ ID NO: 3061:

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3061:	
CGATCAATCA ATATAATTCA CGGCGCAAAA CGTTTATTTA GCATGTTCTT GCAGACTCTG	60
AAACTGGCAT TAAACCTTCC ATTAAGATTT TTACCATTCT AGGCATTAAT ACCATTACTG	120
CAGCCATTGA CATTCCTAAA TTAATGATGT CTCCAGGTTT GTAACCTGCT AACACACCAA	810
TACCTAAmCC TAAAATTAAG CCGACAAATA TAGACTCTCC AAATGCGCCA AAACGTTTTT	240
GAATTGnTTC AGGATCAGCA TCTAACTNAT TCAGACCGGG TACTTTTTGT AACAATTTAA	300
C	301
(2) INFORMATION FOR SEQ ID NO: 3062:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3062:	
TATAAAATCA ATGATTTTAA CAAATAAAAA CGTACCGCAA ATACTGCAAA TAACAGCAAA	60
TACTAGTTTT AATAAAATAT GACCGGTTGG AAAGAACAAT AAAGCAATTA AAATACCTAG	120
TTTAGCCCAT TCCATCGTTC CAGCTGTAGT CGGACTAACA AACTTATTTT GCATCATTTG	180
TTGGCATTAT CAAGCCTGCT GAAAGCCAAC GAACTTCCAG CATTAAAAT ACTCATCGTC	240
CTTGGTATTC GGGCTTGGAG AATAAAATGA TTCCGCTGGT GACTCAGTTG AAATGTAGTG	300
AAATCTTTGA ATTGGATAGT TnCACTGCAC ACCTGATGGn AnCAACGGAA	350
(2) INFORMATION FOR SEQ ID NO: 3063:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3063:	
TTAGTGATTT TAACGTGTAT CGGTAATTTT AAATAAATGT TTAATGCTTT TGAAAATACA	60
GTTCTAACCG AAGACGTCGG GTACACTGAA TCACCGGAAA CGCCAAGGTC TTTTATTAAA	120

(A) LENGTH: 301 base pairs

CCTTGTTCAC	TATATTGCAT	ATACTGTGGA	TGCTGTCGCA	ACACATTGAT	TTGATAAGGA	180
TGTGTTGGTA	ATAAAATAAA	ATCTTTGGGT	ATCTCTGATA	TATCTATGTC	TGCTAATTGG	240
ATACnACACT	TTCTCAACCT	GGATCCTTCC	TTTTACCTnC	CACCATAGCC	GCGTGGAnCA	300
GGAAACCATC	CTGGGATGCA	CCAGCCAAAA	TAAATGCCAA	TT		342

(2) INFORMATION FOR SEQ ID NO: 3064:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3064:

GTCCAGCTCC AGAACCAAAC TTAACAGTAT TATGGTCAGT ACGTTTACCT GACAACTTCA 60

AAACATACTG TGCAAAAATG AGTATTAAAA CAAGTTCTA CCAATATGAA AATGATGACA 120

TTATGCGTGA AAGCTATGGC GATGACTATG GTATCGCnTG TTGTGTATCA GCGATGACAA 180

TTGGTAAACA AATGCAATTC TTCGGTGCAC GTGCGAACTT AGCnAAAACC TTACTTTACG 240

CTATCCATGG TGGTAAGATT GAAAATCTGG TGCACAAGTG GGCCCAACCT CCGAGGGATT 300

nACCAGCGGA GTAATT 316

(2) INFORMATION FOR SEQ ID NO: 3065:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 322 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3065:

TGATTGCGTG GATCAGCAAC TTCAAAGATT AACAAATAAT ATTACTTGGG CAGATAACCG 60
CGCTGCAAAA TATGCAACAG TAATAAATGA AGTGCATGAT GGGCAATGCG ATTTACCAGC 120
GnACAAGCAC AnCGGTTCA TCCTATGTCG CCATTAGCGA AGATTTTTGG ATGAAACATG 180
ATGGCCAGAT GTATTTCCAC GTACTGCTAA GTTTGCAGAT ATTAAAACAT ACATTTCTAT 240
CATTATTGAT ACATATATCA TTGATTATTC CATGGCTTCC GCNACAGGGA TGTTAATTAG 300
AACATAGATT GGAGTGAGGC AT 322

(2) INFORMATION FOR SEQ ID NO: 3066:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 373 base pairs

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3066:	
TATAAAGAAT CCTGCCTTAC CTAAGAACAC TTGTCTTGTC	60
CTTATGTTTA TTATCAACCG TTAATAAACT TACCATCAAG AGTGCACCTA CCCATACTGA	120
CAGTGCAGTA TAGAATGGTG TCATACCTGA ACCATAATCC TTAACTGGGA AAACATCAAC	180
AGTCTTCTTA TTAATAGATT GCAATAATAC CCGCTGCTTT TTCAAATCAT TCTAnTGGTC	240
GATTAATTGT CGACGCATCA TCTTGTCAAT TCTTGAAATT TATTCGCTTT TCAACTTTCA	300
CACAGCAATT ATTGAGAAAA CGCTAATCGA TAAGCTnTCG CTGnGCGATT TATTAGTAGC	360
CACGCTGACA TAC	373
(2) INFORMATION FOR SEQ ID NO: 3067:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3067:	
TTCAGAGTTC GGAACATAAG GCGCTACAAT GTTGTGTTGC CAGTAGTTGA CTGAATATGC	60
GTTTGTAACA AGCTTTTTTC GATTCTAGTC AACAGTAATT AAATTTATGA TATGGGCAAT	120
ACTTTGTAAT ACTAATATTA AATGGCGACT TTATTTCCT ATGTTATAAG AGTGCCATTT	180
GTTGATAAAG GnATACTAAA GGGTATCGTT TGGAATTTTA GTAACTAGAT ATGTTCGGGT	240
ATAGACCGna TTGTGGATAC GTAAATTTAA TGCnATGAAT TTTAAAATGA AAACATGACA	300
TTAAATGAAT C	311
(2) INFORMATION FOR SEQ ID NO: 3068:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQID NO: 3068:	
TATGATTATC TAGTAAGTAA ATTGCTGACG CGCCGAATAC CGCAAAGAAT ATAAAGCAAA	60
CTAACGCCGG GACAAAAAGT ACACCTAGGA ATAAATTCTT TAATCGTACG TCCTTTTGAC	120

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	ACACGTGCAA TAAnATACCT ACAAATGGGT GCCCAGGnTA TCCACCATGG CCCAGTAAAA	180			
	GATTGTCCAA TTTTGTAACC ATTGGGAATT TTTGACCACC TGTCGGAATG CGTAAACTCA	240			
	TACTTAAAGA AATTTGCATT ATAATTACCT AGACC	275			
(2) INFORMATION FOR SEQ ID NO: 3069:					
(i) SEQUENCE CHARACTERISTICS:					

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3069:

AAATGGGTTC TGTGACATTA ACGTCTACAA AAGATGGTTC AGAAGAAACA CACGAGGCTG 60

ATGGTGTATT CATCTATATT GGTATGAAAC CATAACAGC GCCATTTAAA GACTTAGGTA 120

TTACAAATGA TGTTGGTTAT ATTGTAACAA AAGATGATAT GACAACATCA GTACCAGGTA 180

TTTTTGCAGC AGGAGATGTT CGCGACAAAG GTTTACGCCA AATTGTCACT GCTACTGGCG 240

ATGGTAGTAT TGCAGCNCAA GTGCAGGGAA TATATTGACA TTAACGATCA GCCTAAnTC 300

GAGCNGATTA GATGTGAGCG G 321

- (2) INFORMATION FOR SEQ ID NO: 3070:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3070:

GTTTGACCTG CATATTTGAC AGTCATAACC TTTGTATCAC CATTATATA ATATCAAAAT 60
CTTGGAACGT GTTATTTGAG nTGACATTTA ACTTCGCAGC ATTATCAGCT GTTGAACTTG 120
ATGTATACGT TGCGCAACCC ATAACTATCT GTGTTACAAT GCACCAAACG CACCTCCACC 180
AGCTACATTA GATGGGCAGC TTCGCCTTGC AGCTGATTGG TTTAGATGAT TGTGATACGA 240
TCCAATTTGA AGCCAAATNG TACTTAAGCA CAATCCTACT GCGGACCGTT TAACCCTGTT 300
TCACCTATAC ACTGNTGAAA GGCAAACCGT ACCACCACC ATTTCCATGC CTTCCATATT 360
TGGTTACCAA ATTTACTTTT CCCNGAAAAA TGAAACTCTT 400

- (2) INFORMATION FOR SEQ ID NO: 3071:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 266 base pairs

(with appropriate programment, and ID NO. 2071.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3071:
TGGCCATTTG TCATTGCATT TTTACCGTGG GTGTTGATTA TTATTCCTTA CTTACTATTT 6
AAATCGGATA CACTAAATAT TATTCATACG GGTGATAATA TTGCACGAGG TCTAGTGTA 120
AGGTTAAnCA GAGAACGTTT AATATTATTC TTTATCGCAG TGATGTTATC ATCTGCTGCT 18
GTAGCATAGC AGGTTCAATT TCGTTTATCG GATTAATGGG TCCGCATATT GCCAnACGTA 24
TCGTTGGACC ACGTCACCAG TTGTTT 26
(2) INFORMATION FOR SEQ ID NO: 3072:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3072:
GACTCCCTGC AGGTCGACGT CTAGAGGATC CCCCCACAGC AATTCACTTA TACATGTAAC 60
AGTGTGAAAT AATAACGTCA CAACGGCATA ATACACATTG CAACGTCCCA ACAACATATC 12
ATAGAATCGT AACGGCATGA CATCAACACC AAACCTGGGC TATAACACCA TAACAGCGCA 18
ACGCCACATC ATAGGCACTA CATCAAGTCG CATCGTAGCA CCAGCACATC AAAGTAACAT 240
GGGCATCAAC ATCAAACCGG TCTATAACAC CATAACACCG GCAATGCCAC ATTCATAGGC 30
ACTACATCAA GTCGGCATC 31
(2) INFORMATION FOR SEQ ID NO: 3073:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

60

120

180

240

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3073:

ATATACGCTT ATCAGCTGGA GCTCAATAGA TGGAGGATGA TTATGGGGCT ACGGTTCTG

TCTATAGCAC TGGTCTATCA GCTATGTGGA TTACAATCGG TTTAACATTA GGTGCTTATA

TAAATTACTT TGTTGTTGCT CCTAGACTTC GTGTTTATAC CGAATTAGCT GGAGATGCAA

TTACATTACC AGATTTCTTT AAAAATCGTT TAAACGATAA AAATAATGTG TTAAAGATTA

TTTCTGGATT GATTATCGTA GTATTCTTTA CATTATATAC nn	282
(2) INFORMATION FOR SEQ ID NO: 3074:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3074:	
TGTAAATACT GAAACTGGTG AAATTGTAGT TGAAGAAGGT ACAGTGCTTG ATCGTCGTAA	60
AATCGAnAAA TCATGGATGT ACTTGAATCA AATGCAAACA GCGAAGTGTN TTGAATTGCA	120
TGGTAGCGTT ATAGACGAGC CAGTAGAATT TCAATCAATT AAAGTATATG TTCCTAACGA	180
TGATGAAGGT CGTACGACAA CTGTAATTGG TAATGCTTTC CCTGACTCAG AAGTTAAATG	240
CATTACACCA GCAGATATCA TKGCTTCAAT GAGTTACTTC TTTAACTTAT TAAGCGGTAT	300
TGGGtataca Gatgatattg Gaccattagg Taaccgtcgt Ttacgttctg tagkggaat	360
TACTACMAAA CCaATTCCGT ATCGGTTTAT CCAAGA	396
(2) INFORMATION FOR SEQ ID NO: 3075:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 376 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3075:	
ACCTACATTT GCAGTTGTCG GTGTATAACC GGCTGGTGTT GAAAACTCTA CACTATAAGT	60
TCCATTGCTT AAACCAGTGA ACTGATATTT ACCATTTTCA TCTGTTGTCG TACGATCTAA	120
TTCTTTACCG TTACTATCTT TAAGAATGAC ATAAACACCT TTAATCCCTT TTTCATTGGC	180
ATCTTGTTTA CCATCTTTAT TTGTATCTCC CATACATAGT CACCTAGATT ATATTCnTTT	240
GGGCGCCATA GCAGTTGATG AGCATTCACA TTGAAAAACT ATTGACCACT ATATTAGTTT	300
GCAGTGCTAA GNATAACATT TCCATACGTG ACATACTGAT AGACTGTGAG TGATGTATGC	360
GCTGnTGCTC ATAACG	376
(2) INFORMATION FOR SEQ ID NO: 3076:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 331 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3076:	
TTACATCACC AATTAGACGT TATCCTGATT TAACAGTTCA TCGTTTAATC CGTAAGTATT	60
TAATTGAGAA ATCAATGGAT AACAAAGAAG TGAAGCGTTG GGAAGACAAATTGCCTGAGT	120
TAGCTGAACA TACTTCTAAA CGTGAACGTC GTGCTATTGA GGCAGAACGT GATACTGATG	180
AATTGAAAAA AGCAGAATAT ATGATTCAAC ATATTGGTGA TGAATTTGAA GGTAATGTCA	240
CTCAGTAGCT AACTTCGGTA TGTCATTGAA TGCCAATACG TAGGAAGGTA GGTCAATGCG	300
AAnGCnGnGA TATACGTTTG AGGCGCAATG C	331
(2) INFORMATION FOR SEQ ID NO: 3077:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3077:	
AATCATATGC ATCGATTTCC AGCAACAGCA ACCATTCATC CTATGTCCCA TTAGCAAATT	60
TTTTGGATGA AACATGAATG GCAAGATGTA TTTCAACGTA CTGCTAATTT GCAGATATTA	120
AAACATACnT TTCTATCATT ATTGATACAT ATATCATGAT TATTCATGGC TTCCGCAACA	180
GGATGTTTAT TTAGAAACAT TAGATTGGGA TGTTGAGGCA TAGAACTGCT GGGTATTTCC	240
AAGGAAATGT TGCCGGAATT ATTCCAACAA CTATTGATGT AAGTATGAAA GAACGTATGC	300
AACATAATGG GCTAATAAAG TACACCGTnT GTTAATGGTG CnATG	345
(2) INFORMATION FOR SEQ ID NO: 3078:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3078:	
GATTATCAAG CGATTGATCA AGTATCATCA TTGTTGAAAG AAAAATATGG CATTGCACAT	60
TCAACGTTGC AAATTGAAAA CTTGCAATTG AATCCATTAG ATGAGCCATA CTTCGACAAA	120
TTAACATAAA TAAAACATTG TAGCGCCTAA AACATTAATC TATGTCATAG GCGCACGTTT	180

CGTTTTATAC TTATGTTGCA TCATTTAAAT GATTTTCGTC AATTTCTTTG ATGCTATCTA 240

CATCTAACAC GAGGTTAACT TGCGTTGATT TTGATAAAGT GATCATAGCT TTTAGTACTT	300
GAGGATTTTT ATTGTTGCTG TTACGAATGT GGTCATGTTT AATGCGGGAC AGTAATTTAA	360
GTTGTTTTT TACAATTGAG AGTGTGAAT TTCGATTCGG	400
(2) INFORMATION FOR SEQ ID NO: 3079:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3079:	
AAACGTTTAA TATACACTTT TACACGTCGC CTTCATTGAA GCGAATTGCC ATAACCTTCA	60
CATTATATAT AGTTCTTTCC ATATAAATGT CCAAATTTTT AGAACAACGC AATArATAAC	120
CATCCACCTA ACTTATCAAA AATTTAAGTG GATGGTTTTT CATTTTCMT TATATTTATA	180
TTAGTGTTAA TCCAATCATA GATTTATCTA TATGCACTGC TCTATACaTT TCCTCaTTTA	240
ATTTGCYTTA CTTTCATTTA TATCATTATC AGAACACTTG GCGTGTCATC GnTATTATTT	300
CGCATCTTTG AnaCGTTTA	319
(2) INFORMATION FOR SEQ ID NO: 3080:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3080:	
TCAAATGCAT CTAGGnCACA TTATTCTATT TGGGCATTCT TAGTGCTGTT CTTATTTGCG	60
GCTTTAACGT CATCTATTTC TTTATTAGAA TTAAATGTTT CTAACTTCAC GAAGAATGAC	120
AATACAAAAC GTAAAAAAGT CGCAGTGATC GGTAGTATTT TAGTATTTAT CATTAGTATT	180
CCAGCAACCT TATCnTTTGG TATCCTAAAA GATGTAAGAT CGGTGCGGGA ACGATTTTTG-	240
ATAATAAGGA TTCCACCGTT CGAATGTAAT GAAGCCATAA GCGGG	285
(2) INFORMATION FOR SEQ ID NO: 3081:	
(i) SEQUENCE CHARACTERISTICS:	

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3081:

ATCATAGCGT	TTCTCCTAAA	AATTACGATT	AATCAAAGTA	TGCCATTATT	TAACTTTAGT	60
TTCTTCAGAA	TTATTTGCCC	CATTATCATG	TTTTTCTTCT	TTATAACAG (CATTTTTATC	120
ATTTTTAACA	AGATACAATT	TACCAATTAA	TGGGCGGTGT	GCGTGCTGGT	ATGGGTTATA	180
CTGGTTCACA	CGATTTAAGA	GAATTACGCG	AAGAAGCACA	ATTTACACGT	ATGGGTCCTG	240
CTGGTTTAGC	AGAAAGCCAT	CCACATAATA	TTCAAATTAC	GAAAGAATCA	CCGAACTACT	300
CATTCTAATT	AAGATAAAGG	AGAACGACAA	ATATGGGAAA	TGGCAAAGGA	CCAAGAGTTA	360
ATCCTTGTCT	TAGGACTTTG	GTAGGCCATT	ACACCCATTA			400

(2) INFORMATION FOR SEQ ID NO: 3082:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3082:

TGAATTTGCT	ССАААТАААА	ATACAATTGC	CATTAAAATC	ACCAGATATT	ACAAGTGGCA	60
ACATGTTAGA	AACACCGTTC	ATTAAGTGTT	TATAGAATGC	TTTACCTGGG	CTTATTTCTT	120
GACTGTCATT	TGAGTTACCT	GGCAACAAAA	GGTTTACGAC	TTGTATCTAA	TGAATACCAT	180
CTGCTACTGG	TnCTTCTACG	ACATTTTTAC	CATCGAnGCG	GTCCGTCTCA	ACATGTACAT	240
CAGCAGCA						248

(2) INFORMATION FOR SEQ ID NO: 3083:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 368 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083:

TACTAAAGGT	TTAAATCAAA	AATGGCTAGG	TATCGTATTT	GCGATTTTAA	TTACAATTAC	60
ATTTGCATTT	GTATTTAACA	CAGTGCAATC	TAATACAATT	GCGGAGTCGT	TAAATACGCA	120
ATATAATATT	AGTCCAGTAA	TCACAGGTAT	TATTTTAGCA	ATCGTAACAG	CTATTATTAT	81.0
ATTTGGTGGT	GTACGTAGTA	TTGCTACGTA	TCCTCGTTAA	TGTACCGATA	TGGCTATCAT	240
TACATGGTAT	GGTTTAGTAA	TAATGCTATT	AATTTAGACC	AATTGTCCnA	TGATAGGACG	300

ATATAAAAGG CATTGGnACG ACAAGnACTG GTGCGCTGAG GGCTCGGTCT CCAGGACAAC	360
GGGGTATC	368
(2) INFORMATION FOR SEQ ID NO: 3084:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3084:	
TTGGACTTTA TAAAGTTACT AAGTTGTAGA TTATCCTGGT AAAGAAGATA TTGCGGTTGT	60
ACAAGTTGAA GAAAAATCAA CACAACCAAA AGGTAGAAAA TTCAAAGATT TCACTAGTAA	120
ATTTAATATA GCATCAGAAG CTAAAGAAAA TGAACCTATA TØGTCATTG GTTATCCAAA	180
TCCTAATGGA ATAACTACAA ATGTATGAAT CAACTGGTAA AGTATTATCA GTGAATGGGA	240
TATAGTGnAT CGGATn	256
(2) INFORMATION FOR SEQ ID NO: 3085:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 311 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3085:	
ATATGCATAT GCTTCTTTAG GTGAACGAAT ATCTGGTTCA GATACGATTT CAATTAGCGG	60
TGTACCTTGA CGGTTCAAGT CAACTAATGA ATACTCCACC TTTATGTGTT GACTTACCAG	120
CATCTTCTTC CATGTGAAGA CGAGTAATAC CGATTCGnTT TGTTTCACCG TCGACTTCGA	180
TATCGATATA TCCCATTTCA CCAATTGGGT TGATCAATTG AGAATTTGAT AGCTTTGGGA	240
TATCGGGATA GAATAGTCTA CGGTCAACTA GATCnGGTGC GAnTCCATAT TTAGTGCCAT	300
GCAGCACGCA T	311
(2) INFORMATION FOR SEQ ID NO: 3086:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 271 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3086:

ATGTAAATGA TCATCCTTCA TAATAACAAC GATTACTGAT CTTGATCATG ATTTTGAA	CA 60
ATAACAACTG CTTTATTAAT ACCTTGTATA CGCTCGAG& ATGCCAACCT CTGACAACT	C 120
AATCCTAAAC CCTCGAATCT TAACTTGTTT GTCCTTTCGA TATAAATAAT CTATGTTG	CC 180
ATCGGGTAAC AAACGAACGA TATCACCACT TCCTATACAT CAGCTGATTT ATATTTGA	AT 240
CTTTGATAAA TTTATCTGCn GTCAATTCTG G	271

(2) INFORMATION FOR SEQ ID NO: 3087:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 256 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 3087:

GTAAAGATTT	CAATTCATCA	TCTTTAAATA	AACTTAATGG	TAATTnGTTA	TACCnAATAA	60
AGCCTTCTGG	ACACTTCCTT	TAGACCGACG	ACCGTCTTAG	CTAATGTCGA	TTTCCCTGAC	120
CCTGATTCAC	CGACAATGCC	TAATGTTTCG	CCTTTTCTAA	TAGCCAAGTT	AATATCATAA	180
CTGCTCGGTA	TGGGCTGCCC	CTCGGTGATG	TGTAATCCAC	GCTCCACGCG	ATCGATTTTA	240
ATAAAATATC	ATGGTT					256

(2) INFORMATION FOR SEQ ID NO: 3088:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 337 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3088:

AAGGTTATTT GAATGATCAA GGTATCCACA AAAGAGGTGC TGAAATAGAT CGACTCGTT	7A 60
AAGGATGTAC AGGTGTTAAA CGTACAACTG GACAŒATCC AGGGGGTATT ATTGTAGTAG	120
CTGATTACAT GGATATTTAT GATTTTACGC CGATACAATA TCCTGCCGAT GATCAAAAT	180
CAGCATGGAT GACGACACAT TTGATTTCCC TTCCTnTCAT GATATGTATT AAAACCTGA	AT 240
AAACnTGGAC ACGTGATCCC ACCATGATCG ATGCCTCCAG ATTATCAGGA ATGATCCAA	AA 300
ACCATACCTG AGATGTAAGA GTATCAGTAT TAGACnC	337

- (2) INFORMATION FOR SEQ ID NO: 3089:
 - (i) SEQUENCE CHARACTERISTICS:

(A)	LENGTH: 303 base pairs
(B)	TYPE: nucleic acid
(C)	STRANDEDNESS: double
(D)	TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3089:

TATCAGCGAT	GACAATTGGT	AAACAAATGC	AATTCTTCGG	TGCACGTGCG	AACTTAGCTA	60
AAACATTACT	TTACGCTATC	AATGGTGGTA	AAGATGAAAA	TCTGGTGCAC	AAGTTGGTCC	120
AAACTTCGAA	GGTATTAACA	GCGAAGTATT	AGAATATGCC	GAnATTCAAG	AATTTGATCA	180
AATGATGGAT	TGGCCTAGCA	GGTGTTTACA	TTAACTCATT	AAATGTATnA	CTACATGCAC	240
GATAATACAG	CTATGACGAT	TGAATGGATT	ACATGTACAG	AATTGTCCGn	CCATGGCACA	300
GGA .			•			303

(2) INFORMATION FOR SEQ ID NO: 3090:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3090:

CTTTCGTTAA	AGGGGCATAT	TCATATAATG	GATGGTCATT	AATAATAATT	CCTGCCGCAT	60
GTGTAGATGT	ATGTCTTGGT	AAACCTTCTA	ACTTTTTACA	AATACTGAAC	CAGCGTTCAT	120
GTCGATGGTT	TCGATGTACA	AACTCTTTAA	AATCGTCAAT	TTGATATGCT	TCATCAGTG	180
TAATTCCTAA	TkTATGTGGG	ATTAAACTTG	GAAATTTCAT	TtAATGTAAC	TTCATCAAAC	240
CCCATAATTC	TTCCAACATC	TCTAGCAACT	GCTCTTGCAA	GCAGATGACC	GAAAGTCACA	300
ATTCCAGATA	CATGTAGCTC	GCCATATTTT	TCTTGGACGT	ACTGAATGGA	CCCTTTCTCG	360
GnGTGTATCT	GCAAGGTCAA	TTTTCATTnT	CAGGCATGGT			400

(2) INFORMATION FOR SEQ ID NO: 3091:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 340 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3091:

TTGTTTTTC ACGTTCAATn ATTATCTTCA ACTTGTGACT ACAGATTTTA AAATGGAATT 60

TA	CAAGTATC	TTCTTCAATA	TTTTGCATCA	TGATATCAAA	TAATTCATGA	CCTTCATTTT	120
GA'	TAGTCACG	TAATGGATTT	TGTTGTGCAT	AAGACGTAA	GTGAATACCT	TGACGTAATT	180
GGZ	ATCCATGT	GTCGATATGG	ATCAGTCCAA	TGGCTATCAA	TAGAACGAGG	TAAAATCATA	240
CG	CTCAAACC	CCATCCATTG	GnTCCTCTAA	GATACCTTTT	GACCTTGGAT	AGCnGCTCAA	300
CC'	TAGCCCAA	CGACCTCGAA	AATACTCAGC	ACCTTACCTT			340

(2) INFORMATION FOR SEQ ID NO: 3092:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3092:

CGACACCTCA ATAATCATAT CO	GTAATGTTC	AACTTTTCCT	GATTTAAATG	TAATTTCATT	60
TCCATTGATA GCATTAATTT CC	CTCATTTAA	ACGGT ATG GA	ATCTCCCGCT	TATCTAATTC	120
ATCAAGTATA GGTTGATTCA GT	TCGGCATCC	ATAATTTATT	TATCTTATCA	GATCGATGAA	180
TAAAGTAGGG TGTAAACCAC GT	TTCCATAAA	GATTTCAAGG	AACTCCAATG	GAACATAACC	240
TGCACCTACC ACCAATACTT TA	ATCCACTTG	GATTGGCTTG	GAGGAATGGT	CGGATAGGCA	300
TCCAGGGCCT CCAAAATTCC nA	AGGGGAAAn	GGTAATATCC	ACCTTCCAAG	GCCAAGGGCC	360
AATTGGCACC TGGCCACCCA GG	GGnCTTAAA	AAGG © TTAA			400

(2) INFORMATION FOR SEQ ID NO: 3093:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 252 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3093:

TTATACCCGn	CAAATTCATA	AATATAGTnC	CTTTTCAATA	GATTGATATG	TATGTCTAAA	60
TGTATCGATT	AACTTTGCTA	ATGCTGCTTC	ATCTAATGGT	CGGTCTGCTA	AAAAAATTTTA	120
TGTATTCTTC	AATAGGTATT	CCCATATAAT	GCGTTATTTC	TTTAGATGAT	GGTT C GTTA	180
AGCCACATGC	TTTAAATGCA	CTTTGTGTTG	CTACTTCACC	ACATTTTTC	GTGTCTGCCA	240
ACGTACCATC	AA					252

(2) INFORMATION FOR SEQ ID NO: 3094:

(i) SEQUENCE CHARACTERISTICS:

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3094:	
AATCTATTAA TAATGAAGAA AAAATTGTAC TAGCACGTAG ACGGTTAATA AAGTTCGATA	60
AAGATATCAG TATTCCATAT ATTCTAAAGC AAGCATATTC TAAAGAAAAA AACAGTTATA	120
TATTCTTGTT AGAATCACAA GATTCTATAT TCTTTTCACA AACACCTGnn CAATTAATAA	180
AGGTCAATAA TAAAATCTAT CGACTAAAGC TGTGCAGGTC AATTAAACGG TCACAAGTGA	240
GGCCGAGGTA CAAAAAATGT TGAGCATTTT AAAGTATAAA CTTATCGACA CGnTTGTGTG	300
CAGTTTTCAT GTTT	314
(2) INFORMATION FOR SEQ ID NO: 3095:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3095:	
GGTGAGGCGG CATTGAGAAA AAATGCTGAA GTAATCGAAG CTGTATCGCA GTCTTGTTTG	60
ACAACAGGAT TTTGTTTATG GTGCCAATTA GCTTTTTCAA CGTATTTAGA AATGCCACG	120
CAGCCACATT TAAATAATGA CTTACAACAG CAATTGTTAT CTGGAGAAAT ATTAGGTGCT	180
ACCGGATTGT CTAATCCCGA TGAAGTCATT TAATGGATTT AGAAnAAGTT GGACCCTTTG	240
AAACACCACC TTAATGTTGG ATGGGACCAA TTGGGTGGTC CAGTGGGAnC GTAATGCCCA	300
GCTGTAAAGT nATAATCCAA GGAAAGACCC AT	332
(2) INFORMATION FOR SEQ ID NO: 3096:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3096:	
TTTATGCATA CGCGCACTCA TCACACTACC GACAACAACA TCATCTTTTC GAGCATATCT	60
ACTTAACAAC GTCATGACCA CACTCATAAA GAACATAAAA TCAGTAATTT GATGCTTTTC	120

(A) LENGTH: 314 base pairs(B) TYPE: nucleic acid

TACATACTTT TGAAGTAGCT GTCTCATTG TTGATTCATG TAAATGACAT CATGCTCCAT	180				
TTGTCGGTTT AATAATTGGT CTAACATAnT CTGTCGGGTA AGCCTAAAAT AGGGTACTTC	240				
ATCCTTGAAT TGAGGATACC CATATTGGTC CTAAGGTTCG GTCCATATCC ACGGATGGCG	300				
GACCATCCCA CTCCACCTAA TAGGTCCTTT AATATTGGCA ATTTAAGGTG GGACCAATA	360				
ATTTAAGGTT GGATAAAGGT GCCGTTAAGG ATCCAATTCC	400				
(2) INFORMATION FOR SEQ ID NO: 3097:					

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 265 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3097:

ACTCTGGTCC	TTCTGCATAA	CTGCCGTAAA	TAATTCACCT	TCATCACACG	CTGTACCTAC	60
CAATAATCCC	nCACGATATA	CGTGGAATTC	GAGGTGTACG	GTAGAAATAC	TTCACCAATG	120
ATGCACTTAC	AATTTTAAAT	AGATTTTTAA	GACCTTGTTG	GTTTTGTACA	ATTAATGTGA	180
CATGACTAGG	TCTTGCACGT	TTATATGCAT	CTTCATTACT	GAGTTTTTTG	GTTGATTTnC	240
GTTATGATTT	AATACGGCTA	ATTCT				265

- (2) INFORMATION FOR SEQ ID NO: 3098:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3098:

CTAAT	GTATC	AGTTTGGCAT	GAATTCTTTT	GCATCTTTCA	ATAATTGTTG	TGATCTTTTT	60
TAGTC	ACATC	ATCAATTTTC	TTATCTTCGT	ATAATGCTTT	TTCAATCTTA	TGATATCCTG	120
ACCAT	TCTTT	TTCCTTTTTC	TCTTCTTTCA	TATCTGCAAG	CGGGCATCCA	ATTTTAGGAT	180
CCTAA	ATCTC	CCAAATGCTT	CTGAACTGGT	CAGAGCGTCA	TAATACATAC	GACTTTTGGA	240
TATAC	GCTTT	TnCTTGGGCA	TACATTATTT	CAATCGTTTA	CAAATTTTTC	TGACCTTTTA	300
AAATC	ATTnA	CTGTCAnCAG	A				321

- (2) INFORMATION FOR SEQ ID NO: 3099:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3099:	
ATCCGCAATC TGAGAAACAT CATCTTCGAG TTGTTGGAGG GTTCCAATTT TCAAGTCATA	60
AATCAGATGA TGAATGGCGA GAGTTTGGAC TAAATCATTT TGTATTACCT GAAGTTTTAA	120
TTTCAACTGA TAATAATGGG ACATTTTTAA CTTATACAGT TAAAAGGGAA AGTTTTACTG	180
TTGAGGCATT GAACGATTTA ATGGATTGTT CAACAATATA TCGGACATAG AGTGGACGAC	240
CAATGGGGGA ATACCAGAAT GAGATATTAT AAAACA	276
(2) INFORMATION FOR SEQ ID NO: 3100:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3100:	
GTCATTTGAT GACAATGGTA TTAGACCAAG TACCAACCGT TCTGTGCCAC nTAAAACGTT	60
GTTAATAACT TGCCGGGCTT CACACTAATC AATGGTGGCA AAGTAGGGGT GTTTAGTCAT	120
GCAAnGTTAA GAACGAGCAT GTTTGATTCA GGAGATAATA AGAACATCA AGCACAAGGA	180
AATGTAATTG CATTAGGTCG TATACATGGA ACTGATACGA ATGACCATGG CGATTTT	237
(2) INFORMATION FOR SEQ ID NO: 3101:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3101:	
nCGATATAAC AAGGTTGTTA GACTTAAAGG TGGCGATCCA GCGATATTTG GTCGTGTGCA	60
AGAAGAAGTC GACATACTAA ATGAACATCA TATTGCGTTT GAAATTGTAC CAGGGGTGAC	210
ATCAGCGAGC GCnAGTTTGG CTACTATGCA GACAGGTTTG ACAATGCGTA CAGTTGCTAA	180
AAGTGTGGAC ATTTTCTACA GGTCACTTTT AAAGATTCAG AAGAAAATGA AGTGGGATGG	2 4 0
TCCATTCCTT AAGT	254

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(2) INFORMATION FOR SEQ ID NO: 3102:

1	(+)	SECUENCE	CHARACTERISTICS:
١	/	SECOPINCE	CUMMACIENTALICS:

- (A) LENGTH: 240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3102:

CAATCACTCA TGTAGTAATT GATACCTAAG AAGTCGTTTA AATCTTTGGC TGCATCTAAA 60
ATGGCATAAT CTTCATnTGT AATGTTTAAT TTACCGCCAN TAACAGATAA GATATGTTGC 120
ACACCTTCCA TCGTTTCACG AGTAATACTT ACCTAAATAT GTTGCATCTA AGATGAATTT 180
ATTATGGATG GATATCTTCT AAATTCTGCT GCACGGGACA TCTCAGGAT TTGGATGGTT 240

(2) INFORMATION FOR SEQ ID NO: 3103:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3103:

GTTGTAAACT TCAATTGTTC AAATAAATAA CACATATCAT TGGAGGTGAA TTGATATGCC 60
AGATTCAATC ACAATTATAG ATGAAAACAA AGTGGTTGAT GTTGTATTAA TTGCAGGTAG 120
AATTTTACTT GAATCAGGTG CTGANACATA TCGAGTTGAA GATACAATGA ACCGTATCGC 180
ACATAGTTAT GGTCTTCATA ATACATATAG TTTTGTCAGT TCAACTGCAA TTATTTTTTC 240
ATTAAACGAT CGAACAAGTA CAAGATTAAT TCGTTACAAG AGCGTACAAC AGATTTAGGG 300
AANGTGCGAA TAAGCGGGGN AATTCTTC 328

(2) INFORMATION FOR SEQ ID NO: 3104:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 265 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3104:

TTTTGCTTTG TGCGCTAATA ATCTAATGTT CGTGGAACCG NAACCAGAGA TATTACAAAT 60

ACATCATCGA CTAATCGCAG GTGTCGTTGA TTCTCCAACA ACATGTGCCT GTTTGCCGAG 120

CTGATTTAAG GCGGCATTGC AAAACTATTC GCCACGAATC CTGAACGTCC TTTGCCAGCT 180

ACAAATATAT GTTCAGCATG TAGTATTTTG GATGCAAAG TGAAAACTCA TCCGCTTCAA 240

GCGGnTAGAn ATTCGTTTCA AATGTTTCTG TAAATGCCTC AGTTGTAAAT CCATAATAT	180
CATCATGATA CTGTTGATGT CCAGCAACTA AAGTAACATT ATCTAAG	227
(2) INFORMATION FOR SEQ ID NO: 3108:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3108:	
CTTTAAGTTA CGTTCGGCTT TGATTAAAGT AAAACGTGGT ACTGTTTCCT ATGACAAGAG	60
TCTAATTGGA TACAATGTAA ACAAAATGGT GnATTTGTAT TATAGATAAT AAACATTCGn	120
TATACATTCA ACATATCGAT GACCACTTGG ATTAAGCAAC GTAATATCAT TCGTACTGCT	180
CAAGAAATGA CAAACGAAAT ACGAGAAAAT TTTGAGTCAT ACACGTCATT TAGAATGAAT	240
AGTATTATGC AAGTACT	257
(2) INFORMATION FOR SEQ ID NO: 3109:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3109:	
CTTAAAGCCA AGTCGATCTG CTAATTTGC AAGTGTCACT GAATCTTGCA ATGCCTTTTG	60
TGCATCCTTA CCTTCATCTA TTAAGGCATA GTCTAATACG CTTAATTTAA CCAATCCGTC	120
ATCTCCAAAC TTATCCTGTC ATGTCAAACC GACATAACAT TTGTAGCGTT CTTAATACCA	180
TTCCCTCTGC ATATACCCAC GTATATGATA ACGTNTTTCA NTTAACT	227
(2) INFORMATION FOR SEQ ID NO: 3110:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3110:	
TTTCTTCATC GTTTGTGAGA AAGAGGTATT TTTAATTGGG AAAnCAGGTA AAAAGGATGG	60
AAGTACATAA AAAGAGCAAT GCTTGGGCAT TATTCCnCTT GTTATTATTT GTGGCGTTGT	120

TTTTAGGCGT	AGTATTATCA	CAGGTGATTT	TACTTCAATG	CCATTAAATG	TTGCAATTAC	180
GATAACGTAA	TTGTGCGTTA	TTAATGAATC	GAAAAGAATC	ATTGCTAAAA	AGTGAGTCTC	240
CGAAAGGCGG	CCTTCAACTG	TTAAGAGTGA	TTTATTGCAG	GCTTCAATCG	CGAAATGGTG	300
CnAAGCGCGT	ATTAGCACTA	GCCGAA				326

- (2) INFORMATION FOR SEQ ID NO: 3111:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 300 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3111:

- (2) INFORMATION FOR SEQ ID NO: 3112:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3112:

TTATTGTTAA CACAAGGNTT CGAACAAGGT TGGTTTAGTA CATTTCAAT CATTTGTCTG 60

AGCATTTTTA TCATCACTAC GTTGATATTC ATCATCATCG AACGTCGACA TGAAGTACCT 120

TTTATTGATT TCTCAGTATT ACGCAACCGT CCGTTCATTG GTGCATTTT AAATAACTTT 180

GTTTTAAATA GCGGTCTAGC GTAACAGGGT CTTTCATATA TGCTCAACAC ACCTGGTTTA 240

TCGCGCGCAA TCGGACTGTT ACATGCCAAT GCCATGGGCG TTCGAGATCG TTAGTGAAAG 300

CACATAGTTC GGGCAATGAG CCACATGGTC GTGTCCGTCA CGCACACATA TAGCAGCT 358

- (2) INFORMATION FOR SEQ ID NO: 3113:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 251 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3113:

TCGGTCTTGA	AAACCGACAG	GGGACTTAAC	GGCTCGCGGG	GGTTCGAATC CC	TCTTCCTC	60
CGCCATCAAT	ATTTATATTA	AATTCTATAT	ATAATGAAGG	TAAGTGCTCA AA	FTTTGAGT	120
ATTTACCTTT	TTTATTTGTC	TTTGAATGGC	TCGTAATTTT	TGAMATAGA AAT	GATAAGG 1	80
CATTGAGATT	GGAAGGGCAT	TTGGCTTGTG	CAAnATACAT	AGCnAAATGT CG	TTGTTGTT	240
TTGTGATAGA	Т					251

(2) INFORMATION FOR SEQ ID NO: 3114:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6591 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3114:

TTTAAGTGAA TTnCTTTGGG TTACAGAAwT TTCAACAACT TTAAAGCACG TATAATGATG	60
ATTTTCAGCT TGTACAAAGG AGAAAAAAAG AAGACAACCA AGCCCAATAA TGGACTGGCC	120
GCCTAATAAT AAAAACTCTA AAAGTTGTAT TTTAAAAAATA GTTCTTTAAA TTATATACCC	180
ACCACATTTG GTGGAGAACC GTTAAACAAT GCATAGTTGC TTAACTTCCA ATATTGAACT	240
CATCATTACA ATTTGACATA GAGTCTATTA AAGCGTGTGC CATTTGAGTC CACTTTTATT	300
TGTATTGTAT AGAGAGAAAT AAAAAGAAAC CTTGTTTTAC AAGGTTTCTA ATACGTTATG	360
TTATGTAAAT AACAGTTAAT TATACCGGTG GTCGGGGTCG AACCGACACT CCACAAGTGG	420
AACGGGATTT TGAGTCCCGC GCGTCTGCCA ATTCCGCCAC ACCGGTTAA TGGTAAACAA	480
AAAACTTCCC TTTGGAAGCA ATTATGGAGC GGAAGATAGG ATTTACACCT ATACCTCGTT	540
CCGGGAAGGA ACGTGTTCTA AAAGTTGAAC TACTCCCGCA AATATTAAAT TATGGAGCGG	600
AAGATAGGAT TTACACCTAT ACCTCATTCC AGGAAGGAAT GTATTCTAAG AGTTGAAATA	660
CTCCCGCATT ATTATTAAAT TATGGAGCGG AAGATAGGAT TTGCACCTAT ACCTCGTTCC	720
GGGAAGGAAC GTGTTCTAAA AGTTGAACTA CTCCCGCATA AACCTGGAGG CGGCAACCGG	780
ATTTGAACCG GTGATAAAGG TTTTGCAGAC CTCTGCCTTA CCACTTGGCT ATGCCGCCAA	840
TAACTGGGCT AGCTGGATTC GAACCAÆGA GTGACGGAGT CAAAGTCCGT TGCCTTACCG	900
CTTGGCTATA GCCCATTAAT AATAAGGGCG GCTGAAGGGG ATCGAACCCT CGAATGTCGG	960
AACCACAATC CGATGTGTTA ACCACTTCAC CACAGCCGCC ATGGCAGGGG CAGTAGGAAT	1020

CGAACCCACA CCAAAGGTTT TGGAGACCTC TAT	TCTACCG TTGAACTATG CCCTATTAA 1080
AAATAATAAA TGGAGGGGG CAGATTCGAA CTG	CCGAACC CGAAgGAGCG GATTTACAGT 1140
CCGCCGCGTT TAGCCACTTC GCTACCCCTC CAT	AAATGGT GCCGGCCAGA GGACTTGAAC 1200
CCCCAACCTA CTGATTACAA GTCAGTTGCT CTA	CCAATTG AGCTAGGCCG GCTAAGAAAT 1260
GGTTCAGGAC AGAGTCGAAC TGCCGACACA TGG	AGCTTCA ATCCATTGCT CTACCAACTG 1320
AGCTACTGAA CCATAATAAA AATGTAATGA TGG	CGGTCTC GACGGGAATC GAACCCGCGA 1380
TCTCCTGCGT GACAGGCAGG CGTGTTAACC GCT	ACACTAC GAGACCTATA AAATATTGCG 1440
GGAGGCGGAT TTGAACCACC GACCTTCGGG TTA	TAGCCC GACGAGCTAC CGAACTGCTC 1500
CATCCCGCGA TAATAAAAAA TAATGGCGGA GGA	AGAGGGA TTCGAACCCC CGCGGCCCGT 1560
TAAGGCCCTG TCGGTTTTCA AGACCGATCC CTT	CAGCCGG ACTTGGGTAT TCCTCCATTA 1620
TTATAGGTAA ATCGCTATTA ATTATAAAAT TAA	ATGGCGG TCTCGACGGG AATCGAACCC 1680
GCGATCTCCT GCGTGACAGG CAGGCGTGTT AAC	CGCTACA CTACGAGACC ATTAGTAAAA 1740
CGGAGGAAGA GGGATTCGAA CCCCCGCGAG CCG	TTAAGCC CCTGTCGGTT TTCAAGACCG 1800
ATCCCTTCAG CCGGACTTGG GTATTCCTCC AAA	ATTATAT GGaCtTGCAG GACTCGAACC 1860
TGCGACCGAA CGGTTATGAG CCGTTAGCTC TAA	CCAACTG AGCTAAAGGT CCTAAATATA 1920
ATTTTACAAC TAATAAATAG TGGCGGTGGA GGG	GATCGAA CCCCCGACCT CACGGGTATG 1980
AACCGTACGC TCTAGCCAGC TGAGCTACAC CGC	CTTATAT AGTTTGTAAA TAATATGGTG 2040
GAGACTAGCG GGATCGAACC GCTGACCTCC TGC	GTGCAAA GAGGCGCTC TCCCAGCTGA 2100
GCTAAGCCCC CATAATAATT ACAGTATATC GGG	AAGACAG GATTCGAACC TGCGACCCCT 2160
TGGTCCCAAA CCAAGTGCTC TACCAAGCTG AGC	TACTTCC CGTATAATTA ACGCGCCCGA 2220
TAGGAGTCGA ACCCATAACC TCTTGATCCG TAG	TCAAACG CTCTATCCAA TTGAGCTACG 228
GGCGCATATG TTTTTATTGA AAATGGTGCC GAG	GACCGGA ATCGAACCGG TAcGGTGATC 2340
ACTCACCGCA GGATTTTAAG TCCTGTGCGT CTG	CCAGTTC CGCCACCCCG GCACTATAAA 2400
AATGGAGCAG AAGACGGGAT TCGAACCCGC GAC	CCCAACC TTGGCAAGGT TGTATTCTAC 2460
CGCTGAACTA CTTCTGCATA TGCGGGTGAA GGGA	AGTCGAA CCCCCACGCC GTAAGGCGCT 2520
aGATCCTAAG TCTAGTGCGT CTGCCAATTC CGC	CACACCC GCAAATGGTG AGCCATAGAG 2580
GATTCGAACC TCTGACCCTC TGATTAAAAG TCA	GATGCTC TACCAACTGA GCTAATGGCT 2640
CTTCCATGGT GCCGGCCAGA GGACTTGAAC CCC	CAACCTA CTGATTACA GTCAGTTGCT 2700
CTACCAATTG AGCTAGGCCG GCAATATGTA AGA	ATAAATG GTGGAGAATG ACGGGTTCGA 2760
ACCGCCGACC CTCTGCTTGT AAGGCAGATG CTC	TCCCAGC TGAGCTAATT CTCCGATTTA 2820

AAACTGCCTG	GCAACGTTCT	ACTCTAGCGG	AACGTAAGTT	CGACTACCAT	CGACGCTAAG	2880
GAGCTTAACT	TCTGTGTTCG	GCATGGGAAC	AGGTGTGACC	TCCTTGCTAT	AGTCACCAGA	2940
CATATGAATG	TAATTTATAC	ATTCAAAACT	AGATAGTAAG	TAAAAGtGnA	TTTTgctCGC	3000
AAAACATTTA	TTTTGATTAA	GTCTTCGATC	GATTAGTATT	CGTCAGCTCC	aCATGTCACC	3060
ATGCTTCCAC	CTCGAACCTA	TTAACCTCAT	CATCTTTGAG	GGATCTTATA	ACCGAAGTTG	3120
GGAAATCTCA	TCTTGAGGGG	GGCTTCATGC	TTnAgGATtT	TCAGCACTTA	TCCCGTCCAC	3180
ACATAGCTAC	CCAGCTTATG	CnTTGGCACG	ACAAcTGGTA	CACCAGAGGT	ATGTCCATCC	3240
CGGTCCTCTC	GTACTAAGGA	CAGCTCCTCT	CAAATTTCCT	ACGCCCACGA	CGGA T⁄AGG A	3300
cCGAACTTcT	aCGACGTTCT	GAACCCAGnC	sTGTACCGCT	TTaATGGGCG	AACAGCCCAA	3360
CCCTTGGGAC	CGACTACAGC	CCCAGGATGC	GATGAGCCGA	CATCGAGGTG	CCAAACCTCC	3420
CCGTCGATGT	GAACTCTTGG	GGGAGATAAG	CCTGTTATCC	CCGGGGTAGC	TTTTATCCGT	3480
TGAGCGATGG	CCTTCCATG	CGGAACCACC	GGATCACTAA	GTCCGTCTTT	CGACCCTGCT	3540
CGACTTGTAG	GTCTCGCAGT	CAAGCTCCCT	TATGCCTTTA	CACTCTATGA	ATGATTTCCA	3600
ACCATTCT G A	GGGAACCTTT	GAGCGCCTCC	GTTACCTTTT	A G GAGGCGAC	CGCCCCAGTC	3660
AAACTGCCCG	CCTGACACTG	TCTCCCaCCA	CGATAAGTG	TGCGGGTTAG	AAAGCCAACA	3720
CAGCTAGGGT	AGTATCCCAC	CAGCGCCTCC	ACGTAAGcTA	GCGCTCACGT	TTCAAAGGCT	3780
CCTACCTATC	CTGTACAAGC	TGTGCCGAAT	TTCAATATCA	GGCTACAGTA	AAGCTCCACG	3840
GGGTCTTTCC	GTCCTGTCGC	GGGTAACCTG	CATCTTCACA	GGTACTATGA	TTTCACCGAG	3900
TCTCTCGTTG	AGACAGTGCC	CAAATCGTTA	CGCCTTTCGT	GCGGGTCGGA	ACTTACCCGA	3960
CAAGGAATTT	CGCTACCTTA	GGACCGTTAT	AGTTACGGCC	GCCGTTTACT	GGGGCTTCGA	4020
TTCGTAGCTT	CGCAGAAnct	ArccAcTccT	CTTAACCTTC	CAGCACCGGG	CAGGCGTCAg	4080
cCCtATACAT	CACCTTACGG	TTTAGCAGAG	ACCTGTGTTT	TTGATAAACA	GTCGCTTGGG	4140
CCTATTCACT	GCGGCTCTTC	TGGGCGTTAA	CCCTAAAGAG	CACCCCTTCT	CCCGAAGTTA	4200
CGGGGTCATT	TTGCCGAGTT	CCTTAACGAG	AGTTCGCTCG	CTCACCTTAG	AATTCTCATC	4260
TTGACTACCT	GTGTCGGTTT	GCGGTACGGG	CACCTATTTT	CTATCAGAG	GCTTTTCTCG	4320
GCAGTGTGAA	ATCAACGACT	CGAAGACACA	ATGTCTTCTC	CCCATCACAG	CTCAGCCTTA	4380
ACGAGTACCG	GATTTGCCTA	ATACTCAGCC	TTACTGCTTA	GACGTGCAAT	CCAATCGCAC	4440
GCTTCGCCTA	TCCTACTGCG	TCCCCCCATC	GATTAAAACG	ATTATAGGTG	GTACAGGAAT	4500
ATCAACCTGT	TATCCATCGC	CTACGCCTGT	CGGCCTCAGC	TTAGGACCCG	ACTAACCCAG	4560
AGCGGACGAG	CCTTCCTCTG	GAAACCTTAG	TCAATCGGTG	GACGGGATTC	TCACCCGTCT	4620
TTCGCTACTC	ACACCGGCAT	TCTCACTTCT	AAGCGCTCCA	CATGTCCTTA	CGATCATGCT	4680

TCAACGCCCT TAGAACGCTC TCCTACGATT GTCCAAAGGA CAATCCACAG CTTCGGTAAT	4740
ATGTTTAGCC CCGGTACATT TTCGGCGCAg TGTCACTCGA CTAGTGAGCT ATTACGCACT	4800
CTTTAAATGA TGGCTGCTTC TAAGCCAACA TCCTAGTTGT CTGGGCAACG CCACATCCTT	4860
TTCCACTTAA CATATATTT GGGACCTTAG CTGGTGGTCT GGGCTGTTTC CTTTCGAAC	4920
ACGGACCTTA TCACCCATGT TCTGACTCCC AAGTTAAATT AATTGGCATT CGGAGTTTGT	4980
CTGAATTCGG TAACCCGAGA GGGGCCCCTC GTCCAAACAG TGCTCTACCT CCAATAATCA	5040
TCACTTGAGG CTAGCCCTAA AGCTATTTCG GAGAGAACCA GCTATYTCCA GGTTCGATTG	5100
GAATTTCTCC GCTACCCTCA GTTCATCCGC TCACTTTTCA ACGTAAGTCG GTTCGGTCCT	5160
CCATTCAGTG TTACCTGAAC TTCAACCTGA CCAAGGGTAG ATCACCTGGT TTCGGGTCTA	5220
CGACCAAATA CTAAACGCCC TATTCAGACT CGCTTTCGCT ACGGCTCCAC ATTTACTGCT	5280
TAACCTTGCA TCAAATCGTA ACTCGCCGGT TCATCTACA AAAGGCACGC CATCACCCAT	5340
TAACGGGCTC TGACTACTTG TAAGCACACG GTTTCAGGTT CTATTTCACT CCCCTTCCGG	5400
GGTGCTTTTC ACCTTTCCCT CACGGTACTG GTTCACTATC GGTCACTAGA GAGTATTTAG	5460
CCTTAGGAGA TGGTCCTCCC AGATTCCGAC GGAATTTCAC GTGCTCCGTC GTACTCAGGA	5520
TCCACTCAAG AGAGACAACA TTTTCGACTA CAGGATTATT ACCTTCTTTG ATTCATCTTT	5580
CCAGATGATT CGTCTAATGT CGTCCTTTGT AACTCCGTAT AGAGTGTCCT ACAACCCCAA	5640
CAAGCAAGCT TGTTGGTTTG GGCTCTTCCC GTTTCGCTCG CCGCTACTAA GGGAATCGAA	5700
TTTTCTTTCT CTTCCTCCGG GTACTAAGAT GTTTCAGTTC TCCGGGTGTG CCTTCTGATA	5760
TGCTATGTAT TCACATATCG ATAACATGAC ATAACTCATG CTGGGTTTCC CCATTCGGAA	5820
ATCTCTGGAT CAAAGCTTAC TTACAGCTCC CCAAAGCATA TCGTCGTTAG TAACGTCCTT	5880
CATCGGCTTC TAGTGCCAAG GCATCCACCG TGCGCCCTTA AAACTTAAT CTATGTTTCC	5940
ATCCTACAGG AAACGCGTTA TTAATCTTGT gaGTGTTCTT TCGAACACTA GCGATTATTT	6000
CTTATGAATT CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA	6060
TATTTTACTT ACTTATCTAG TTTTCAATGT ACAATTTCTT TTTAGTCAAG CGCTCGCATA	6 102
AGCAATATCA CTTTAACCAA AAAATATTTG AATGTTAAAT AAACATTCAA AACTGAATAC	6180
AATATGTCAC ATTATTCCGC ATCTTCTGAA GAAGATGTTC CGAATATATC CTTAGAAAGG	6240
AGGTGATCCA GCCGCACCTT CCGATACGGC TACCTTGTTA CGACTTCACC CCAATCATTT	6300
GTCCCACCTT CGACGGCTAG CTCTAAAAG GTTACTCCAC CGGCTTCGGG TGTTACAAAC	6360
TCTCGTGGTG TGACGGGCGG TGTGTACAAG ACCCGGGAAC GTATTCACCG TAGCATGCTG	6420
ATCTACGATT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT TGCAGACTAC AATCCGAACT	6480

GAGAACAACT TTATGGGATT TGCTTGaCCT CGCgGGTTCG cTkGCCTTC TAATGTCCAA	6540
TGTAGCACGT GTGTAGCCAA ATCCATAAGG GGCATTATGA TTTGACGCAT C	6591
(2) INFORMATION FOR SEQ ID NO: 3115:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 325 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3115:	
GGTGCCAAGC AATAAATATG ACTATGCTCA AACTGAATTA ATGGTGGGTG TGTCGCCATC	60
GTAATTGGAT CGTCTGAAGG CGCATATAAA TGATAGTGCT CTTCGAATAA AGGTAGCATA	120
TGTAATTGTT TGTGTTTACG TATTTCTGGT GTAAGTTCCG TGAAACCAAT GTCTATATTC	180
CCATTAATAC GCTATTATAA TGTGTCAGGT CCAATAAGCC CCGGATGACA TGTGTATCCA	240
TTTGGAAATG GAACCGTTGG GAAAGTGGGA ATAACATGGG GGAACGTCAn TCCCCnCCAA	300
GCCCATnGAG GTACCTTTAA TTTTA	325
(2) INFORMATION FOR SEQ ID NO: 3116:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: lineær 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3116:	
CCGnTTGAGT TCGGTGGCGA CATGATTGAT TTTGTAAGTA AGTATGATGC AACATGGGCT	60
GNTTTACCTA CTAAATTTGA GGCGGGTACT CCATTAATTG CTCAAGCATT GGGCTTGTCA	120
GAAGCTATTC GCTATTTAGA ACGCATAGGT TTTGATGCAA TTCAMAATA TGAACAAGAA	180
TTAACGATAT ATGCTTATGA GCAAATGTCT G	211
(2) INFORMATION FOR SEQ ID NO: 3117:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 210 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3117:	
AACGTnTTTT GAAATGATTG CGGCGATGTT GGCGACAGTT AAAGTAGGTG GCATCTTATA	6 0

TACCTATCGA TATTGATTTT CCGAATAAAC GACAAGGTGC AATTTTGGAG GATGCTAAAG	120
TAACTGCAGT CATGTCTTAC GGCGTTGnAA TTGAAACGAC ATTACCAGTC ATTCAATTGG	180
AAAATGCTAA AGGCTTTGTT GAATCAAAGG	210
(2) INFORMATION FOR SEQ ID NO: 3118:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3118:	
TTAATTGATC CTAGCTTGGT TTGCCTCTGT CACTTTATCA TTGATATTTT GGACAGTTGG	60
GTTGCCATTC AACACTTGAT TAATTTCAGT TAACTTTTGA CGCGCTGCTT GTAATTTTTG	120
GGTGTACGCA TTTAACGAAC GGnCGTCATA CCTGTTGTAT CCGTTGGTTG ATTAATGCTT	180
GTTCTAAATT GCGTTTCCAA GTTTnAAGCG GCGCTTATCT GGTGT	225
(2) INFORMATION FOR SEQ ID NO: 3119:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3119:	
CCAACATGAT GCTAGTTTGA TTAAGTTTCT TCTAAAAGA CTTCAAACGG CATGGTTTAG	60
CATATCCTAT TAAGGTTGAA TCGCGTTAAC AGCACATAGG AAATGCTGTT AGGCGATGCA	120
GAGTGCGATT AGGCAGCTAC TGGAAAATTA TTGTTTGATT TGCCAGTTAT TATAAACTGT	180
GTGTGTTGAT GnCGAnCACA ACCCCTCCGA ACACGCTTAA TG	222
(2) INFORMATION FOR SEQ ID NO: 3120:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQID NO: 3120:	

60

CGGCGATTAT ATTAAAAAGC CAATTACAGA ATGTAGTGGT AATGAAATAT GCCAAGAATG

GCTGTATCAC	TTAGGTGTAT	CAACTGACAA	AATTGAAGAC	TTAGCAAAAC	ATGCATCTAA	120
tACGATTCCT	GTTTATATGC	CATATATCAC	ATCTTATTTC	ATGGACGCGT	GCTATCGGCG	180
nACAGACCTT	TTAGTCGTGC	CCGGCATGCA	ATCTnCAGGA	ACTTAGGCAT	TTATTGGTGA	240
ACTTTG						246

(2) INFORMATION FOR SEQ ID NO: 3121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3121:

CAAATACCTT	CTCAACnTTG	TACTTTTTGC	CTAATTGAGC	TGCACGAATT	GCTGCAACGT	60
ATCCACCAGG	ACCTGCTCCG	ATTACTATAG	aTTGTTTCA	ATTGGGAAAT	CTCCAACTAC	120
CATGTTTTAC	CCCTCCATTA	ATAATAATTC	TGGATTATTT	AATAAACGTT	TAATGTGATT	180
CATTGCATTT	TGGCCAGTTG	CACCATCAAT	TTGTCTGTGG	TCAAAGCTTA	ATGAkrtGCt	240
AATACTGGTG	CTGCAACAAT	TTCTCCATCT	TTAACGATAG	GTTTTTGAGC	AATACGGCA	300
ATTCCTAAGA	TTGCTACTTC	TGGGGTGATT	GATAACTGGA	GTGAACCATT	GTCCACCAGC	360
TGAACCGATA	TTACTGATTG	TGCATnnGCA	CCTTnCATT			399

(2) INFORMATION FOR SEQ ID NO: 3122:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3122:

CAGACAAACC	TTGAATTATT	CTACCTATAA	TTAAAAATGC	TGGCAAAGGT	GTAATGATGA	60
TGAGTAATGA	ACCTACAACA	TTTAATATCA	ATCCTACATA	AGTAATTTTG	ACGCGACCAA	120
ATTTATCAGC	AACATCACCA	GCACCTACGT	AAACCAACCA	GCCAATAAGG	CAGATAAGCT	180
AACAGCGTAT	TATCGTTCCC	ACGTCACTAC	TATATGTGGA	TGTATGGGAC	ACAGTTTACC	240
AGGCTGCGCG	ATAGCCAAGn	ATACCCTAAC	GTACCAAGC	ACGGTGCACn	nAATGTTGTG	300
G						301

(2) INFORMATION FOR SEQ ID NO: 3123:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 378 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3123:	
GGAGCAAATT TATCATCTGC AACTAGACAC AACATCACTG TTATTAGTAC CGGGTTATAT	60
AGTAGCAGTC ATTGTTGGTG CACTAAGTGG TAAAATCGGC GAATATCTGA ATTÆAAACC	120
AGCGATTATC ACAGCAATTA TTTAATAGCA CTGAGCTTGA TTTACCTGCA TTGCAGTAGG	180
TAATCACATT CAATCTCGTC ATTCTATGAT ATCTTGCAGT AGCTTGCTTA ATGATGCACT	240
TACTACGAGC ATAAACATGT CTATATGCAG GTGCATGTTA TATTATATAT GGCGACGAGA	300
TCGTnGGCCn ACGTTAACTA ATTCnGCATG TCTAGCCTCG AATTATATAG TAGGAGCGTA	360
GTACGCCAAC TGCCACGA	378
(2) INFORMATION FOR SEQ ID NO: 3124:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3124:	
TATTGCAAGA AATGAACTGC TGATTTTTAT AGTTTTAGTG GTCATAAAAT GCTTGGACCA	60
ACAGGTATTG GCGTATTATT TGGTAAACGT GAGTTACTAC AAAAAATGGA ACCGATTGAG	120
TTCGGTGGCG ACATGATTGA TTTTGTAAGT AAGTATGATG CAACATGGGn CTGATTTACC	180
TACTAAATTT GCAGGTCGGG TTACTCCCAT TGAATTGGCT CCAAGCCAAT TGGGGCTTGG	240
CnAGGAAGCC T	251
(2) INFORMATION FOR SEQ ID NO: 3125:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3125:	
CGGTTAAGTA ATACAGGATG TTCTCTAATT ACTTCTTCCA ATACGTCCCA AACTTCATCA	60
TCCATACGTT CGATTTTACT CTTCGCATTT TTAATGTTAG TTGCAATTTC ACGTTGAACT	120

AATTCTTTCA TTACGAATGG TTTAAATAGT TCAAGTGCCA TTTCTTTTGG TAAACCACAT	180
TGGTACCATT TCCAnGCTTG GACCCNACGG CAATTACCTG AACGGTCCCG GAA	233
(2) INFORMATION FOR SEQ ID NO: 3126:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 413 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3126:	
AATAGATTCC CGGGATTCAA AAGCATGGAT GTTGTACCTT GTTGTnCTCC ATTGGCAATG	60
TACTACCTGA TGTCAAGATG AATTATCCAT CACTTTGTTG ACGTGCTTTA TTTTACAGCA	120
TCAATTTGAT CCAATCGAAA TACCAGATAA CTTAGACTGT GTCCCAGTAA AATAACGATC	180
AATCACATCA TGAGACAAGC CAATCGCTTC AAATATTTGT GCCCCTTGAT AACTTTGCAC	240
TGTCGAAATT CCCATCTTAG CCATTACTTT AATGACACCT TCTGACAATA CATCCGTATA	300
TGTCtTAACA TTATCGACAA CGGTGCCTTG TAACCCTTCT GTCAATGTCA GTGTTCAAC	360
TGTACGTTGC GCTAGGTATG GCACAATTGA TTCGCGCCAT ATGCGAGTAA ACA	413
(2) INFORMATION FOR SEQ ID NO: 3127:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3127:	
GTCGTAAATA CTGAACAAAA ATCACGGCAT ACTGTGCAAA TTTnTGAAGA AGCTCAAAAA	60
CTATTACAAG CACATCATGC GATTGTAGAA GGATATATCG AATCAGCTTT AGAGCGTGCG	120
TANATCATCT TCTACATACA TAGGTAATTT TATGGCGATT CCTCATGGAG CATCCTGTAA	180
AAAGTTTTAC AATCACATGT GCTTATTTT	209
(2) INFORMATION FOR SEQ ID NO: 3128:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3128:

TAAATTAATG GAGTTTGGTA CACGTCGTCG CAAGAAATTG ATGCAGTGGG GCGCTAGAGC	60
TGCTTACATC GGGGGCTTTG ATTCTACAAG TAATGTTAGG GCGGGGAAAT TATTTGGTAT	120
ACCTGTGTCT GGTACACATG CACATGCATT TGTCCAAACT TATGGAGACC AATATGTTTG	180
CCTTCnAAAA ATATGCTGAA AGnC	204
(2) INFORMATION FOR SEQ ID NO: 3129:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3129:	
GAAATACCAT TAATATAATA GTCGGTAAAT TAAGAAACGT GGECGCGAT TCACAACAGA	60
AATCTTAACT TATCGAAGTA TCCTGTTTTC TCTGCAACAC CAATACCAAT CATCACTGCT	120
AGTACTAAGC CTAATGCGGG AACTCTGAGA AATTTTTAAT CGTATTCTTC TTATCATCGT	180
AAATCCATCT GGCTATTATA TTTTAATATA AnGGTTTGAG CTACCGGATG CTAACGnAC	239
(2) INFORMATION FOR SEQ ID NO: 3130:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3130:	
ATCACAATAA ACATTTTAAA ATTCTTGTTA TCATAATCAT TAAAAGGTAT TAACCTTAAT	60
AATATATTCT CTnGTCTCAA CCTTAATCGT ATACTTCAGA CGTCTGTTTG TAGACAATAA	120
AGTCATTCAC GTCTTCATAT GTCATCANAT GTTTATCATG ATATGATGAT ATATAATCGG	180
TATATACTGT AGATATTACA CATAAGAGAG GATATAATAT GAAAAGGTCA TTAAGATGTG	240
CTGAGAGCTG TGTATCAGT	259
(2) INFORMATION FOR SEQ ID NO: 3131:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3131:	
TGTGCCTGCC ATTTTGCAAT ATCTTCATCT TCACGTGGTA ATGCACAAAA ATGTTTACCA	60
TGTGCATTCA CAACTTCAAA AATATGTTGA CATGTGATGTTACTTGATCA TCACGCGTTG	120
CCATGGTATG CAAGTGCTGC GATAAATCTG CGGCACCTTC GACTATCATG CTAACCTTCG	180
CTTGTnnATA TCGCAATGGC ATACCCCTTC AACATCTTCT ATCATGG	227
(2) INFORMATION FOR SEQ ID NO: 3132:	
 (i) SEQUENCE CHARACTERISTICS (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3132:	
ATCGCAGTGA TGTnATCATC TGCTGCTGTA GCnTAGCAGG TTCAATTTCA TTTATCGGAT	60
TAATGGGTCC GCATATTGCC AAACGTATCG TTGGACCACG TCACCAGTTG TATTAACCAA	120
TTGCCATTTT AGTAGGGGCA TGTATACTTG TAATAGCTGA TACAATTGGC CAAAATTGTA	180
TTACAACCAG GTGGGGTTCC AGC	203
(2) INFORMATION FOR SEQ ID NO: 3133:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3133:	
AGCATTTAGT TTAGCGGCAG TAGCTGCAGA TGCACCGGTA GCTGGCACAG ATATTACGAA	60
TCAnTTGACG AATGTCACAG TTGGTATTGA CTCTGGTACG ACTGTGTATC CGGACCAAGC	120
AGGTTATGTC AAACTGAATT ATGGTTTTCn AGTGCTAATT CTGCTGTTAA GGTGACACAT	180
TCAAAATACT GTACCTAAGG A	201
(2) INFORMATION FOR SEQ ID NO: 3134:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 207 base pairs	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3134:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

CATTTGTAAC TGTTATTGTT TATAACTTCT GTGTGAAGCG CAATATTACA ATTAAAATGC	60
CGAAAGAGT ACCGnCGAAT ATTTCACAAG TATTTAGGAC TTAATTCCAT TTTCAGCGGT	120
AATCATCATT CTTTATGCAT TAGGATTTnG TCAATCGCAA CCAGCTTTAA ATCAAATGT	180
AGCGGAGGTA TTTTAAAATT ATTCGGT	207
(2) INFORMATION FOR SEQ ID NO: 3135:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3135:	
AACACCTTTA GGTCGTGCAG GTCAACCTGT TGAGTTATGT GGTACTTATG TGCTATTAGC	60
GTCAGAAGGA ATCAAGTTAT ACAACCGGAC AAGTnTTCGG TGTTAGCGGT GGAGTGCAAn	120
TAGGTTAGGT TTGTATGAGC TTTTAATTGA GCACCATAAT GTTAATTTAG TTACTTCAAT	180
CCATTAAATT AAATGAATTG GTG	203
(2) INFORMATION FOR SEQ ID NO: 3136:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3136:	
CACATCCAAT GCAntCtact AAATCAGACA CACCACAATC TCCAACCATA AnaCAAGCAC	60
AAACAGATAT GACTCCTAAA TATGAGGTTT AAGAGCGTAT TATACAAAAC CGAGTTTTGA	120
ATTTGAAAGC AGTTTGGATT TATGCTCAAA CCATGGACGA CGGTTAGGTT TATGATGTTA	180
TTCCAATAGG TTCACTATAA ATAGCTTAGT T	211
(2) INFORMATION FOR SEQ ID NO: 3137:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3137:

ATTGGGAAAT GTTCCCCCAC CACCTACAAT TTGTGAATAC AAACAAMCG TATTGCAATG	60
GACTTTACCT GGGCTTACCA AGTGAATGTA TACGTCACGT ATGATACGAT TGTAGTTGnA	120
AAATAATGCG AACAGAAAAT CGTTATAAGT ACAAATAATA CAGGTGACTC AACTCCTGCT	180
TTTAGATTAA CAAATCTCCA ACCGATACAA TGAGTGCTTG CAACATACCA AGCATTATAA	240
AGAATCCTGC CTTACCTAAG	260
(2) INFORMATION FOR SEQ ID NO: 3138:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3138:	
CATAAGCAAT TAATGACTTC GTTAATTGCG AAAGTGTATC TTTTTGATTA TCATTCGCTT	60
TTGCATCTTC AAGCTTTCTC ACATCTGATT TGACAGCATT ACTTTCACTA TTATCTTCAA	120
GCGATAATTT CTTAACTGCA CTTACCACTT GCTCAATTGC TTCTGCnTAT TGTCATTCGA	180
TATCGGAGTA GTAGGAAGTG CnGAATTCGG CA	212
(2) INFORMATION FOR SEQ ID NO: 3139:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 373 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3139:	
TATTGGTTTT TATGCGAATA TGGATAATAA AAGGTCTCAC GACATCATTG ATAAATCGCT	60
TGAnatgttg CGACGCTTAG ATCACAGGGG CGGGGTCGGC GCAATGGCA TCACTGGTGA	120
TGGCGCAGGT ATTATGACTG AAATACCTTT TGCATTTTTC AAACAACATG TAACGGAGGA	180
CCTGAAGCGC GTGGCTTTAT CATTGGCTGT CCTGTAGCTT ATTCAATGGG GATTGGCTTT	240
GCACCTGTTA GAAAAGAAGG GAAATTACCT CGTGAAGTCA TTCGTTATGA GTATGACCTA	300
GAATATGGTA CAAATGTTTT AACAATGGCA CAAAGATGCA ATTGAAACCA GGTnCAACGT	360
GTGTTAnTAC AGG	373
(2) INFORMATION FOR SEQ ID NO: 3140:	

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 220 base pairs (B) TYPE: nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3140:	
AGCCTTATAA TAAAGTGCCT TTCATAGCAA TAAGTTGTGT CCATTGACCT ATTACATTTT	60
TCGTTTTGTA CATTAAATAT AAGAAATACG GTGCACCAAT AATTGCTACG ACAATACCTG	120
CTGGAACCCC CACCTGGTTG TAATACCATT TTGGCCATTT GTATCAGCTA TAACCAAGTA	180
ACCNTGCCCC AACTAAAATG GCATTGGGTA AAACCACNTG	220
(2) INFORMATION FOR SEQ ID NO: 3141:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3141:	
GAGGAGCAGC ACAACCAAAT ACACAACCAG CTGGACAAGGTGATCAAGCT GATCCGAATA	60
ACGCTGCACA ACACAACCTG GAAATCAAGC AACACCGGCA AACCAAGCAG GTCAAGGNAA	120
TAACCAAGCA ACACCTAATA ATAATGCAAC ACCGGCAAAT CAAACACAGC CAGCGAT	177
(2) INFORMATION FOR SEQ ID NO: 3142:	
(i) SEQUENCE CHARACTERISTICS (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3142:	
CTTTTTTAGC ATTTGGTTTA ACAACCNGGT GTTGCAGTAT CCCCACTTAA GGTCTGTATA	60
CCTTGATCTT TGATTCTAGT AACGCCATCA TCAGTCGTTT GGTCACCAAT ATTACCAATT	120
ATTTCATTTT TATGTTCCTC GATAACTTGT ATTGCTGCTT GTTTTCCTCC ATCTGTCAAT	180
CCATCATTTG ATTGAGAGAA nCAG	204
(2) INFORMATION FOR SEQ ID NO: 3143:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 279 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3143:

GTGATGCCAT	ATAAATTGGC	AATAATGGCA	CAAGTACTGT	CAGTCCAGCA	ATCGCTATAA	60
ACTGACTGAG	CCATAAAATG	CGAAAGTTAC	TGCGCCATAT	AGACTGAT T A	ATCATATGTC	120
ACCATTGGAT	TTGGTACGGT	AGTTAAACCT	GAAGGCATAC	TACCCTCCAC	CCACTTATTC	180
AACGTTGGAT	nATAGGCAAT	GGGTAATTAA	AAATT T GTT	TTTGAAATGG	GCCCACGGGC	240
TTGTTTTAAT	СААААТТААА	AAATTGTGGT	nCTTGGACC			279

(2) INFORMATION FOR SEQ ID NO: 3144:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 514 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3144:

TGACTTAATC	AAAGCATTTG	ATCAAAACAC	CAGAATACCA	TTATTCTTTA	ATATGTTGTA	60
CAGTAAACTC	TnTATTATTT	GTTGCTGTTG	GATCCATTGT	TCGTCTTTCA	ACAAAACnT	120
GACCCAGAAT	GAAGTCCGAT	AGAGTCAACA	AAGCtATAGT	ATTTGTAACC	ATCTTTTAGT	180
TGATaAATGC	CACGCGCATC	TGTTATTGCG	TCATTTTTAG	GTACAAATTG	AATTTkGAGA	240
TTTCTCaCaT	TATCAGGTAC	TTTAAATAAA	CGCAAAGTTG	GACCGnCTTC	AACAGTCTTT	300
TCAGCAATCG	TATCATTAGT	ATCAGCATTT	TTGATAATAA	CATTTGTTGC	GCCTTGACC G	360
TTTTTAGTAG	TCATTGTATT	AAATCAAGGT	TAATTCAGAA	TTCGGATTTA	CTGTTAATGC	420
TTTCTCGATA	CCATTAAAAT	CGCCATGGTC	ATTCGTATCA	GTTCCAGTAT	ACGGCCTAAT	480
GCAATACATT	TGCCTGTGCn	TGATAGTnCT	TATT			514

(2) INFORMATION FOR SEQ ID NO: 3145:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 302 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3145:

ATTCAGACTT	TGCATGTGGA	ATGGCCACGT	TCATGCCAAT	AGCTGTCGTA	CTCCCATTTC	60
ACGTTCTAGT	ATTGCATTTT	TTAAATGCGA	TGTGTGCTCT	ACATAACGGC	AAATTTTAAG	120
TTTTATGAAT	CAACATATCC	AATGGCTTCG	GTTTCGAGAC	ATGTCCGT G G	ATTCAGTAT	180

TAACCATAGT TTGGTTGGAT CCAAAACCAT GAGnAGGGTT TAATGGAGGA TGTnGAATGG	240
TTCnCCGGTG GTTAATCCTA CATGGTCCAC CCTCCTGGTA ACCATGGTGG TGGTAATAAC	300
cc	302
(2) INFORMATION FOR SEQ ID NO: 3146:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3146:	
CAGGAATAGG ATCATTTGCA TCCATAGCTT CACTTATTTT TTCAGAAGCT AGCGTACAAT	60
CATTTAAATC TACGCCACCT TCTTTATCAA TAGAGATTCT AAGAAAATGA TCTCTACCCT	120
CTTTGACCAT ATTCAACGTC TACAAGTTCC AAAATTCAAG GTCTTCCCAT AATTGGGTTT	180
AACCAATCCA CTTTCTACCT GGTTTCCGGT AAATTTTAC CTCCATACCA GGGnCCTCCC	240
CCTTTTTTGG GCCAAAATAG GAAAAANGAG GCGGGGGAAA TCCTCCCCCC AATTCCnTTC	300
CTGGCCCTGG AGGTTTCCAC CTAAATTTTT TT	332
(2) INFORMATION FOR SEQ ID NO: 3147:	
 (i) SEQUENCE CHARACTERSTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3147:	
GAGAGTGGTT AACAAGCAAA TAGAAATAAT TAAAAATGCA GATGCAGATG CATGGCGAA	60
AGAAATTGCA CGTACGGATT TAGGTAGATA TTTGACAGAT TnGCTGATAA ATTAGATAAA	120
CNCCAACAAA TGCAGAAGTT GCTGAATTCC AAATGTAACG ATACCTGCCC ATGAGCGATG	180
TGCTCAGAAT GATCAGAGCT AATG	204
(2) INFORMATION FOR SEQ ID NO: 3148:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 217 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3148:	
CAACCGGGAC AGGTGGGGTT ATTGGACGTT ATTTTTGGCC TTTGGATTTT AAGATATTGG	60
TCGAAAAGAG ATTACATAAA ATTGTGGCCA AATGCGGATT GCATATTATT GTAACGCCGn	120
CTATTGCATT GTTGATTGTT AGGNCTATTA ACTATCTGGA TCTGTATGCC ATTAGCCAGG	180
TTTTGTTTCA GACAGTTTAG TTTCAGTAGT TAACGGA	217
(2) INFORMATION FOR SEQ ID NO: 3149:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3149:	
CTATTATTAT ATTCCGCGGT GTACGTATAT GTGCTACGTT ATCTTCGTTA ATTGTACCGA	60
TTATGGCTAT CATTTACATT GGTATGGTTT TAGTAATATT GCTATTTAAT TTAGATCAAA	120
TTGTTCCTAT GATAGGTCAC GATTATTAAn AGTGCATTTG GTCATCGAACAAGT	174
(2) INFORMATION FOR SEQ ID NO: 3150:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 181 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3150:	
GGGACCGAAT TGACTTCAGC ATTACCAGCA AATTGATTAA TnTTGTGGGC TGGTATTGGC	60
TCTGGCGGTA CCATTTACAG GTACCGCACG TTATTAAAGC AACATCACGG GCAATGTTAT	120
GCCGTTGAGC CAGAAGGGTC CGTGTTTAAA TGGGAGGGCC AGCTCATGCA CTGACACTGA	180
A	181
(2) INFORMATION FOR SEQ ID NO: 3151:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3151:	
GTTTTAATTG AGCGACATAC TCTTCTGTTA GCTCTGCTAC TTTTTAAAAT AGAGCGATTG	60

ACATCAAACA TAACTGCTAA ACGCTCAACG TCTGCCTTCG TAATGGCTTT TGTAGAAATT	120
CTAACTAAAT AATTTCGAAT ŒTATCATTG GTTGTnTCAA CAGCTTGATG CT	172
(2) INFORMATION FOR SEQ ID NO: 3152:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3152:	
ATGGACGTTG AGACATTTAT AAGCGATATA GATTTCGCAT GTTGCATTTA TTAAACCTAA	60
TAATGGTAAA CGACAAGTGT GACTGTTACT GGACTTTAAT GAAGGTAGTA ATCAGAATGG	120
AAATCAACCA AAAGTAGGTA TTTGAATnTT GGGAATAATG AACATAGCG AGAGTGTATA	180
TGCAATACGA CAGTACTnTA AATTAAGAG	209
(2) INFORMATION FOR SEQ ID NO: 3153:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3153:	
TTCTCACAAA GCGCTCAGTT GAAGTAAATC CACCTGGACA ATCCAAATGT ACCTGCTTCA	60
TTGCCTAAAG GTTCAATCGT TANACCTTCC AATAAATTTG CTGTTGCTGG ATAAGGAGAA	120
ATTATTGGTA TATTGTCTTA AATTACTATG ATGCCAATTT AAGGTCTGGA TGAT	174
(2) INFORMATION FOR SEQ ID NO: 3154:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3154:	
GGATCACATC GTTCATTTAC ACAATCTATT AATATTCAAT GGCACAATAT AGTGTTTATG	60
GCATTACGGA TATGATTTAG TAGCnCACCA TTATTAACCG ATCTCTATCT GTTAAAAGGA	120
ACTTAAGAGC AATGTTTGCG CATCATCATT TTATGTTGCG TCTTTGCACG AGTTTTGCGA	180

AACTTTACAA TATTTGTTGC GGATGATTAT TTAACTTTTG GAGAATGTTG ATGGCACAGT	240
CCACTATANC AATCAGTATC GCAATGG	267
(2) INFORMATION FOR SEQ ID NO: 3155:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 490 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3155:	
AATTAAAAAT CAAGCAACTG CTGCAAAAAT GGAGATCAA ACTGTTCCTC AAGAAGCAAA	60
TTCTCAAGTA GATAATAAAA CAACGAATGA TGCTAATAGC ATAGCAACAA ACAGTGAGCT	120
TAAAAATTCT CAAACATTAG ATTTACCACA ATCATCACCA CAAACGATTT CCAATGCGCA	180
AGGAACTAGT AAACCAAGTG TTAGAACGAG AGCTGTACGT GTTTAGCTGT TGCTGAACG	240
GTAGTAAATG CTGCTGATGC TAAAGGTACA AATGTAAATG ATAAAGTTAC GGCAAGTAAT	300
TTCAAGTTAG AAAAGACTAC ATTTGACCCT AATCAAAGTG GTAACACATT TATGGCGGCA	360
AATTTTACAG TGACAGATAA gTGAAAyCAG GGGATTATTT TmCacGAgTT ACCAGATatT	420
TACTGGTAAT GGACACGTGG GATTATTCTA ATTCANATAA TACGATGCCA ATTGCAGACA	480
TTAAAAGTAC	490
(2) INFORMATION FOR SEQ ID NO: 3156:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 262 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3156:	
CCTTCAGTAC CTTGTAATAG TTAnTTAAAT GTTCCGATCA TCGTGTAGTG TGATTCATCA	60
TACCGGCCTT TTCAATTGAA TACGATCTAA ACCGTTCGT CAGGTGCTAG TAAGTTACCT	120
TCGCCACCTA AATAAGAAGT TCACTCGTTA CGATTTTTTC AGATAGCATC ATTGGTGGAT	180
TCGTAACTTG TGCAACAGCT GTTTAAGTAT TAATAGTGAT TCGGTCGTCT TCACATGCAT	240
TGGCGCACAA TCCnTGCACC GT	262
(2) INFORMATION FOR SEQ ID NO: 3157:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 170 base pairs(B) TYPE: nucleic acid

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3157:	
ATGGTAAAAA TTGCACTATC TGCTCGGGAA ACGATTTTGC ATAACCTATT GTTAATTTTT	60
TACCTGTTGA TTTAGCTGTA TCTGnCCATT TTTTGAGCTT CTGCTGTCGT TTTAGCCATT	120
GGGTTTTCAC ACATCACATG TTTACCAGCA TGCAACCCTG GCTACAGTAA	170
(2) INFORMATION FOR SEQ ID NO: 3158:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3158:	
CCAGGCAGAG GAGCAGCACA CCAATACACA ACCAGCTGGA CAAGTGATCA GCTGATCCGA	60
ATAACGTGCA CAAGACAACC TGGAATCAAG CAACACCGGC AACCAAGCAG GTCAAGGAAT	120
ACCAAGCAAC ACTAATATAA TGCACACCGG CAAATCAACA CAGCAGCGAA TGTCCAGCAG	180
CAGCGAACCA GCAGCACTGT AGCAGCAACG ACAACTCAGn CCAATGTAGC ATATGGTGAG	240
GCAGTTTATA GACATACATT GTGnCCTGCA TTCACAGTGG ATAGCAGGTC CACTGTACTG	300
TACAGTAAGT An	312
(2) INFORMATION FOR SEQ ID NO: 3159:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 171 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3159:	
AATCACATCA AAAACTTCAA TTGTTTACGT TGGCAACTAA CTTTATGTTAGAACGCACAC	60
AATATCTAAT GTTTAAAATC TATCGTCGCA AGATGCTTCC TGnTAATTAT CAGTGCCATT	120
TTCGATTGGG TTATACAATC TAGTAATCGC ATGATAATTT AATGCTACAA G	171
(2) INFORMATION FOR SEQ ID NO: 3160:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 211 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3160:	
CTTGTTCATT TAATCCATAT AGTATACGAC GATGTACTGG TTTTAAACCG TCACGAACAT	60
CTGGCAATGC ACGAGCAACG ATAACACTCA TCGCATAATC TAAAAATGAT TCACGCATTT	120
CACTGGTAAT ATTTCGTTCA TTAATCnTGA TTGAGGGAAT TCCGCCCATC CAGAnGTCCC	180
CCCTCCAAAG TTCAGTTCCA CAGGGGCTAG A	211
(2) INFORMATION FOR SEQ ID NO. 3161:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 321 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3161:	
GCACAGGTAG CGGTAGTGGC GCTCGTATGA TGACTTTGGT AATCTAAAGC AAAATGTACG	60
ATAATAATAA ACGTCGTTTC GTTTCTCTGA TGTAGCAGGG GCAGTGAAGA AACAAGATTA	120
TTGAATTGTT GATTTCTTGA AGATATAAAA ATTCAAGAAT GGGTCTAGGA TTCCTAAGGT	180
GTCTTCTTTT GGGCTCAGTA CGTAAACATA TTGTAGAGCG TGCAGTAGT GGCGCACCAT	240
CTCTTTTGGG TCAGnTTTGG AGTTTTGTTT GTCGGCTGTC GGATTnTCGT ATGTAGGAAC	300
GGCTGTTCAC TTnCGTGGAT G	321
(2) INFORMATION FOR SEQ ID NO: 3162:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 159 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3162:	
AACATTTGAG CAATATCAAG AAACATTAGA GTATATTTTA TCCCATCATG TAACTCGTAA	06
TACAGCAATT ATTGCTTTGG GTGGTGGTGC ACTGGTGATT TTGCTGGGTT TATTGCGGCG	120
ACACTTTTAC GAGGCGTGCA CTTTATACAA GTGCCAnCG	159
(2) INFORMATION FOR SEO ID NO: 3163:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 157 bæe pairs (B) TYPE: nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3163:	
GTCAGTTATG GCAAGTGCAT CAACATTTTC AGACACAGAC AAGTCTTACG GCATCTTCTA	60
TTTTTAAGCT TGAAATTTAA CAAATCATAA GCCGTATGAA TATTTAAATA TGCCACCATG	120
ATTGAATGGC CCCTTTCTAT TAGTTAnGTT TTGTGCG	157
(2) INFORMATION FOR SEQ ID NO: 3164:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(with appropriately appropriately 2164)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3164:	<i></i>
TATAAAAATA TAACGCGGAC AAAAAAGTGA GTTATTACTG ACAAAGTATn TGAGATTGTA	60
ACAGGATATA TGAAGCAATA TCAGTTGATC CAACTGT@T AGGTATTTCA TCAGCAGGnG	120
TTGTTGATGA ACAAAAAGCG AAATTGTATA GCAGGCCAAC ATTCCGATTA TAAAGGTATA	180
ATTTTAAGGA TTATTAAAAT CATGTCTCTT ATGTCA	216
(2) INFORMATION FOR SEQ ID NO: 3165:	
 (i) SEQUENCE CHARACTERISTIS: (A) LENGTH: 175 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3165:	
AGAAACACTT CTATTGAATC GTCTTACTGC TGTTCTCTAT TTATAACACT TCGTATTAA	60
TGAATTCATT ATGCCTATTT GACACATTAT TGAAGTTTTC CTAATGCCTG GATCCTTTAT	120
ACGTTACGGC TTCGTGCTAT GTTTTGGTAC ATAAAGCTTT GACATATCGA nATTC	175
(2) INFORMATION FOR SEQ ID NO: 3166:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 160 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3166:	
ACTGTTACAA CAAATTAAAA ATACAACAAG CGAGATATAG TTATTGTTGC TGGAnTGTAC	60
CAAGTAGTAT TCCAAGCGAT GCTATGGCAA ATTGCACAAA TTACAGCACA GACAGGTGCT	120
AAATTAGTAG TCGACGCTGA AAAAGAATTG GGCTGAAAGT	160
(2) INFORMATION FOR SEQ ID NO: 3167:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3167:	
TGTGGGGGAA ACCTGCACAG CAAAAACTAA AGCTTATCGA TACATCTAAA CATTGTATTA	60
TAAAATCAGT GCATCCTAGT CCACTGTCT CATATAGAGG ATTCTTTGGA TCAAAACCGT	120
ATTCCAAAGC GAATGCCTAT TTAGCGTCAG TAGGnA	156
(2) INFORMATION FOR SEQ ID NO: 3168:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3168:	
TATTAGTAAA GTGATCAAGA AGAATCACA AAGATCCAGT TAATGANTTA ACAGAATTCG	60
GTGGCGAGAA ATACCGCAAG CATAAAGATA TCTTTGATCC AACTTACCA CAGATCAACG	120
GAAAAGTACC AGGTAACCAG GAATCAAGAT CCAGACACAG GAAAAGTGAT CGAG	174
(2) INFORMATION FOR SEQ ID NO: 3169:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3169:	
TCAAACGGGG TCAATTTCAA ATGGAAAAAT TATACCGCAT CTTCTCCTGA TAACTACGTG	60
ACCTTATCTT CTTTATATTT GCAGACCACG AACATTCAAA CTGCATGCTT GCTCGATTGG	120
CAATGTCATA TAACTAGTAA CATGATCATC nCATCAAATT TAGTATGTCA AATGTCCCAA	180

TCAnTAATTT GATCGGTGTT GCTCAATTGA TTA	213
(2) INFORMATION FOR SEQ ID NO: 3170:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3170:	
AAAGCACCTT TTCCTAATGA AAGTTGTGCT ACTGGTATCT GTGTTTGATT TACAAAATCT	60
TCTAATTCTT GATGGAGGTG AAAACTGTTA ATTTCATGTC CAGTAATGAT GATAGGCTGC	120
TTCGCTTGAT GCAGTTTAGT TGCTAATAAC TCTATATATG TTGATGCATC CGTATATTTA	180
GTTGCCGTCA CTTCAAATGG TGTCGGTATC TCAATTTCAG AGATTGCGAC ATCGATTGGT	240
AAATGTAAAt GAACTGGGCG TCTTTCGGCG ATTGCTGTAT TAATMAACG TGGTATTTCG	300
GTTGTTGCAT TTTCAGGTGT GATATAACCT GTGCACGnTT ATATGTGCAA ACATTTTTCG	360
ATAGTCGTCA AATGTACCnn	380
(2) INFORMATION FOR SEQ ID NO: 3171:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 401 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3171:	
TAGAAGGTAA GAAGGATCCT ATCGGTGCAA TGGGATATGA TGCGCCAATT GCAGTGTTGA	60
ACGAGCGACC AGAATCACTA TTTAATTACT TTAAACAGCT GTTTGCACAA GTTACGAATC	120
CACCAATTGA TGCGTATCGT GAAAAAATCG TAACGwGTGA ACTTTCTTAT TTAGGTGGCG	180
AAGGTAACTT ACTAGCACCT GACGAAACGG TTTTAGATCG TATTCAATTG AAAAGGCCGG	240
TATTGAATGA ATCACACTTA CAGCGATTG ATCAGGAACA TTTTTAAATT AACTTATTTA	300
TCAACGGTAT ATGAAGGGGG ATTTGGGAAG ATGCGTTAGA AGCATTAGGC CGAGAAGCAG	360
TGGAATGCTG TTAAGCAAGG GCGCTCCAAA TTCCTAGTGG T	401
(2) INFORMATION FOR SEQ ID NO: 3172:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 166 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3172:	
ACATAATTTA AAATAATATT ACATTTGTAA TGGnCACCAA GAACGTTTC GGTTGCTTGG	60
TGTTTTTTGG TATGAATTAC TTTCTGTTAC AAAACAATCT AAAGCGTTCT GTTATGTTTT	120
ATTAAGATTT AATTACAAAC GGAAACTAAA TGTAATAGAA TAAACT	166
(2) INFORMATION FOR SEQ ID NO: 3173:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3173:	
ATAATGAGAn TGTTGTACGT TATGGTGGTG GAAGTGCTGA TGGTGATTCA GCAGTAAATC	60
CGAAAGACCC AACTCCAGGG ACCGCCGGTT GACCCAGAAC CAAGTCCAGA CCCAGAACCA	120
GAACCAACGA CCAGATACCA GAACCAAGTA CCAGACCCAG	160
(2) INFORMATION FOR SEQ ID NO: 3174:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3174:	
CTTTATATAA AGAAGGAATT ACTAAACATA CAGTTAGATT ACTTCATGCA ATCGAATTAG	60
AACGTTTGAA TTTAAGCCGT AGATTAGGTT TTGAATTATC AACAGCnAAA GAATCACGTA	120
TTGAACGGGG GTTATTTAGA ACGTGATAAA GAAGGATG	158
(2) INFORMATION FOR SEQ ID NO: 3175:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3175:	

TATTTGAAGA TGGCTGTGTA CAAAAATCGG TGTTACGTGA TCATGATACT GTCAGAATTT 60

ATAAACCATG GCTAACAGCA CATCAGCTTT CATGCCCnA GTATGTCGTC AGAGAAGATA	120
CACCTAATCG CTAATTAATG AGGTTTGGAA ACAT	154
(2) INFORMATION FOR SEQ ID NO: 3176:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 472 base pairs (B) TYPE: nucleic æid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3176:	
AGAAGGTATT TTAGCTCAAT CTCCAGGTCT AAAGGTTGTT ATTCCTTCAG CCCATACGnT	60
GCGAAAGGTT TATTAATTTC TTCTATTAGA AGTAATGACC CAGTCGTATA CTAGAGCAT	120
ATGAAATTGT ATCGTTCATT CCGTGAAGAA GTACCTGAAG AAGAATATAC AATTGACATT	180
GGTAAGGCTA ATGTGAAAAA AGAAGGTAAT GACATTTCAA TCATCACATA CGGTGCAATG	240
GTTCAAGAAT CAATGAAAGC TGCAGAAGAA CTTGAAAAAG ATGGTTATTC TGTTGAAGTA	300
ATTGACTTAC GTACTGTTCA ACCAATCGAT GTTGACACAA TTGTAGCTTC AGTTGAAAAA	360
CTGGTCGTGC AGTTGTAGTC AAGAAGCACA CGTCAAGCTG GTGTTGGTGC ACAGTTGTAG	420
CTGAATTAGT GACGTGCATC CCTTCATTAG AAnnCCTATG GAAGAGTGCA CA	472
(2) INFORMATION FOR SEQ ID NO: 3177:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3177:	
TGAAAGCTGG CGAATACAGT GATTGTCAT ATGCGGATCT ANTTGTCATC TGTGCTGGTG	60
CTGCACAAAA ACCTGAGAGA AACACGTTTA GATTTAGTAT CTAAAAACTT GAAAATATTC	120
AAATCAATTG TTGGTGAAGT AATGGCATCA	150
(2) INFORMATION FOR SEQ ID NO: 3178:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3178:	
TTACTCTATC TTGATTTGAC GAAATACTAT TAnGCTAATA TCGATATTT AAAAACGAGA	60
TGATGTTCCA AAGCAAGCCA TTTCGATGGA CTGCTAATAT TCTTCAGCCA AACGTATCAT	120
TTTACTCGCA TTTGGTGAAA AGAAACGGCT GCTATTACAC ATTTAT	166
(2) INFORMATION FOR SEQ ID NO: 3179:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3179:	
CTTCGACTCT AGAGGATCCC CGCGCTCAAA TTCTAGTGTT AGATGATAGT GGATTAGTTG	60
ATAGCAATGG CTTTGCAATG CCGATGTTAC TCGCAATAAG TCATGTGCAT CAATTACTTA	120
TTAAAGCAGA TTTACGTATG TCTACAAGTT TAnTTCGCTA AATCTGGTGA	170
(2) INFORMATION FOR SEQ ID NO: 3180:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3180:	
AGCTAAGGTT GCCnTGGGCG TTGCCCCAnT TGGTTAGTCC AGGTGGTCGC GGTGGCCATC	60
GGTGTATTCG CCAGGTCCTT CAGCCAGGGT TTTTACTATT ATATCCAGTT GTAGCATTCA	120
TGATTGGGGC GATTCGAGAT AGATTCATCA ATGAAATTAA TTTCTGGATT TTATTCGTTG	180
GTATTTATTT GGGTATACAT AAGTATGGTA CATGATAGGC AGATATACAA CATTACAACA	240
TTCATTCTAC TATGCTGGAA ATAACATGAC AGTGATGACA CTACÆTCCC CGTCGCA	297
(2) INFORMATION FOR SEQ ID NO: 3181:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 349 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENŒ DESCRIPTION: SEQ ID NO: 3181:	
CACTAGGTAC CCCAAAACGC CAGAGGAACT TGGTTAAATC GCACTTACTT GGTGGCTCCA	60

ATCAACTGGT ACTTCATAAC GTTTGGCATC TTCGCCACTT CACCACTATT ACTCTTTCCA	120
CCTAATTGGT TCATGGCTTG TGCTAACGTT TCATGTGCTT CCGCTGAAAT CGATCCATAA	180
CTCATCGCCC CTGTATTAAA GCGTTTGACA ATGTCACTTA CCGGTTCAAC TTGGTCGATG	240
TCAATCGGTG TACATGCTTT AAATTCAAGT AAATGTCTAA TGTGaTCTGT TCTATTTTTG	300
TTnCACCGnT TnCAGAGTAT GCTTTAAATT GCGCCATAGT CCATTTTCT	349
(2) INFORMATION FOR SEQID NO: 3182:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3182:	
TACCAACACG TACACCTTCT AAAATAACTG CATTTGCACC GTnTTAATAC ATCATCCTCG	60
TTTATAACCG GTGTAAGCAC TAGGGGGTTC AATCACACCT GCTAATACTG CGCCAGCCCT	120
ACATGTACAT TTTTACCAGT TGTAGCACG	149
(2) INFORMATION FOR SEQ ID NO: 3183:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3183:	
GCGGTGCCGG TGTTGCAATT GGCGCAGTGG TGTTGCAGC ATGTGGTCTT TCAATCAATG	60
TTCAATACAC CAGGAGATCC GGAAAAGATG CGTATGAATT TTATGGTAAG TGCACCAGGC	120
ATTACCACAC CACGCAAnAA CATGCAT	147
(2) INFORMATION FOR SEQ ID NO: 3184:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3184:	
CAGCGATATG TTGGCGTTGA AAATCTGCAA TTTGTTCATA ATTCTCTGTT AAAGAAGAC	60

TTAAATTGAT AAAAATGGAT ACGATCTCTT GGTAAACAGT GACATTTTCT CAATCGGCGT	120
ATGATGTTTG TGGCACCGAC CATCGAGAAC ATGAAAATCT CATGTCCCAC GCTAGTCGnC	180
(2) INFORMATION FOR SEQ ID NO: 3185: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3185:	
GGTAAATACG TATTAATCAG ATTAAGATCT GGTGAAGTTC GTATGATCTT ATCTACTTGG	60
CCGTGCTACA ATCGGGnCAA GTTGGTAACC TACAACACGG GTTAGTTAAC GTTGGTAAAG	120
CCGGCACGTT CAAGATGGGA AAGGTATCCG	150
(2) INFORMATION FOR SEQ ID NO: 3186:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3186:	
GAATTTnAGG TGAATCAGAA GATTAACGCT GTTGCGTCCT AAGCTAACAG ATACTGGTTC	60
GTCAGTTGTC GTTGAAAAAG CGAATGACA ATTTAATAAA ACCGTAACTC GAGCATTATT	120
AGAGGAAGCT AACCAAAGCA GGTTTA	146
(2) INFORMATION FOR SEQ ID NO: 3187:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 165 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3187:	
AAATTGGCGA GTATGTTGTT ATTGGGTCAG TACTCTGAAA TTAACAATAG nTACGATTGA	60
AAATGGTGTC ATGTATTCAA CAGTCTGTTG TTAATGTATG CTAGTC&GG TGCGAATACT	120
AAGGTCGGAC CGTTTGCGCA ATTGAGACCA GGCGCGCAAT TAGGG	165
(2) INFORMATION FOR SEQ ID NO: 3188:	
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 166 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3188:	
CAGTTTAGTG GAGACGAATC TAAACGAAAC AAAGCGATTG GACGTGCATC AGTTGTACCA	60
ACATTCTTTG GTGTAAACGn AACCAATTTT ATTTGGTGCC ACCACTAGTT ATTGGAATCC	102
TGTGTTCTTT ATTCCATTTG TATTAGCACC AATTGTTAAC GTATGG	166
(2) INFORMATION FOR SEQ ID NO: 3189:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xí) SEQUENCE DESCRIPTION: SEQ ID NO: 3189:	
AACCCTTTAT CTAATCCATT TTCAGTTAAG CGATGACCGC CTGCTAAAAT TTGTGCATCT	60
GATTCTTTTG CTGCATCAAT ATATGATTGA ATTTTATCTA ATTGATCCTT ACCAGTTTGA	120
CTACCCATTT GGGTnGCTTC ACCTGG	146
(2) INFORMATION FOR SEQ ID NO: 3190:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3190:	
TCCCCCAAAG GGTTTAAGGG GTTAACCCGG GTTTGGGAAA AATTTTTTAA CCCCCCTTAA	60
Anttcccgg Aaaaaggaaa cccgggtttt taaaaaaaac ccggggttcc caaaaatttt	120
TTGGGAAAGG GAAAGGAAAA AAGGGTTAAA AAATTTTEG GAAAAACCCG GGCCCAnAAA	180
AAAGGGTTTT TTTCCCCTTA AAAAAATTT AA	212
(2) INFORMATION FOR SEQ ID NO: 3191:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3191:	
CTTCACTGAC TTTAGCAATT TCATCACCTT TTGCCCCTAC AACGATAGCT AATGATTTAT	60
ATTGTAAACT CAnATGACCT TGTTGAATAC CTTCTGACAC AAGCGCGCGA CATGCTGAA	120
AGTTTTGCGC TAAACCAACG GCAGCAAC	148
(2) INFORMATION FOR SEQ ID NO: 3192:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3192:	
CTGCTAATCC GAAATCTTTT TGGAGTTTTA TTAAACCAGC TGCTTCTAAT AGTTTAAGTG	60
CACGTGCTTG GTTTGACACA TCATTTGGAA TGACAACTTT AGCnCCATCT TTAACCTTTT	120
TGACATCTTT AATTTTATCT GCAGAAATAA ATCCATCACG GATGGCTCTT AAATATATGT	180
TACGTGATAA TTTCTCGAnA AATGGCTTCC CT	212
(2) INFORMATION FOR SEQ ID NO: 3193:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3193:	
TCGTGCAGTG GTCTTCTGTT AATTGGTGAA TTTGGATACT GGTTATATTC AGCTGCACCG	60
CAAGCAACTT CTATTGATGG CCnAACTGC TTTTTACCTC AAGCAATGGG TATGGTAGTT	120
GTTGCAGTCA TTTATGGCTT T	141
(2) INFORMATION FOR SEQ ID NO: 3194:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3194:	
AATAACGTTC TGAAAACGA AGATGTTTTA AATGCCTATA TCCCCGGTCG TCCCCGAATG	60

GCAGACGCGC TAGG	TTGAGG GCCTAGTGGG	AGAAATCCCG	TGGAGGTCA A	AGTCCTCTCG	120
GCCGCATCAA AATT	CTTAAT TTAAATAAGC	GGGTGTAGTT	TAATGGCAAA	ACCTCAGCCT	180
TCCAAGCTGA TGTT	GTGGGT TCGATTCCCA	TCACCCGCTC	CATAGATAAT	TTTAATGAAC	240
ATTGAAAACT GAAT	GACAAT ATGTCAACGT	TAATTCCAAA	AACGTAACTA	TAAGTTACAA	300
ACATTATTTA GTAT	TTATGA GCTAATCAAA	CATCATAATT	TTTATGGAGA	GTTTGATCCT	360
GGCTCAGGAT GAAC	GCTGGC GGCGTGCCTA	ATACA T GCAA	GTCGAGCGAA	CGGACGAGAA	420
GCTTGCTTCT CTGa	TGTTAG CGGCGGACGG	GTGAGTAACA	CGTGGaTAAC	CTACCTATAA	480
GACTGGGATA ACTT	CGGGAA ACCGGAGCTA	ATACCGGATA	ATATTTTGAA	CCGCATGGTT	540
CAAAAGTGAA AGAC	GGTCTT GCTGTCACTT	ATAGATGGAT	CCGCGCTGCA	TTAGCTAGTT	600
GGTAAGGTAA CGGC	TTACCA AGGCAACGAT	GCATAGCCGA	CCTGAGAGGG	TGATCGGCCA	660
CACTGGAACT GAGA	CACGGT CCAGACTCcT	ACGGGAGGCA	GCAGTAGGGA	ATCTCCGCA	720
ATGGGCGAAA GCcT	GACGGA GCAACGCCGC	GTGAGTGATG	AAGGTCTTCG	GATCGTAAAA	780
CTCTGTTATT AGGG	AAGAAC ATATGTGTAA	GTAACTGTGC	ACATCTTGAC	GGTACCTAA T	840
CAGAAAGCCA CGGC	TAAtAC GTGCCAGCAG	CCGCGGTAAT	ACGTAGGTGG	CAAGCGTTAT	900
CCGGAATTAT TGGGG	CGTAAA GCGCGCGTAG	GCGGTTTTTT	AAGTCTGATG	TGAAAGCCCa	960
CGGCTCAACC GTGG	AGGGTC ATTGGAAACT	GGAAAACTTG	AGTGCAGAAG	AGGAAAGTGG	1020
AATTCCATGT GTAG	CGGTGA AATGCGCAGA	GATATGGAGG	AACACCAGTG	GCGAAGGCGA	1080
CTTTCTGGTC TGTA	ACTGAC GCTGATGTGC	GAAAGCŒGG	GGATCAAACA	GGATTAGATA	1140
CCCTGGTAGT CCAC	GCCGTA AACGATGAGT	GCTAAGTGTT	AGGGGGTTTC	CGCCCCTTAG	1200
TGCTgGCAtA ACGC	ATTAAG CACTCCGCCT	GGGGAGTACG	ACCGCAAGGT	TGAAACTCAA	1260
AGGAATTGAC GGGG.	ACCCGC ACAAGCGGTG				1290

(2) INFORMATION FOR SEQ ID NO: 3195:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQID NO: 3195:

TGGTACAGAG	TTATCGCTGG	TGGTCCTGTT	CGTGCCGTAC	TTGAATTATC	AGGTATCACT	60
GATATCTTAA	GTAAATCATT	AGGATCAAAC	ACACCAATCA	ACATGGTTCG	TGCTAACAAT	120
CGATGGTTTA	CnAAACCTTA					140

(2) INFORMATION FOR SEQ ID NO: 3196:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3196:	
CTATTGGATC AGGAGGCAAC TACGCTTAAG CGCAGACTGC CCATTGAAAC GCCATGCATC	60
GCATTTGTCG CCTGAAGAAA TGGCATATGA GAGCTTGAAA GTAGCGGCTG ATATTTGTGT	120
CTTTACCAAC GnTAATATTG TTGTC	145
(2) INFORMATION FOR SEQ ID NO: 3197:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3197:	
TGTCGAGTTG GAATTGGACG ATTGAATATC CCATCTCCAT CACTATCAAA GTATGGGAAT	60
TGAATTGTTT CTAATTCGTA TCCACCTTCT GTCATTGATA ATGTAGGGTT AATTTTAGAA	120
CCATCTRCTG TTTCTAGTTT TAAGTTCCAC TTCTTACCTT CTTCCCAACG TTGACCCATT	180
GTGCCATTAG GTACTACTAA ACTATCGCTG ATTGCATCAT GAATAACTGG CTCCATTCn	240
CCTTGCTCTG TTGTTTGACC TAAGTCACTC GCGCTnAAAA ATCGACCCGC TTTATATCCA	300
InttCAGCTG	310
(2) INFORMATION FOR SEQ ID NO: 3198:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 140 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3198:	
IGCTTTATTA ATGCATTGGC TAATAATCCA CTTGTACCAC CACCGGCACA AAGTACTAAG	60
AGGTTTGTTC TGTGATATTT GAAGCTTTAG TGCATCGTCT GATACACCAC TTGCCGCTAA	120
AATTGAATCA GCTTTTnTCG .	140

(2) INFORMATION FOR SEQ ID NO: 3199:

(A) LENGTH: 184 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3199:	
TGGTGATTTC AAATCATGAG ACTGGGACAA AATGATGTTT TCATAAAAAT TATTTCGTTG	60
TTCCACTCTC ATGATTTTTT TGATGAACAT AATTACATGA TTGATTGCAT CATTTGTTAA	120
AACCAGTGAT TGCAACCTGC CATTCACANG GAAAATTACC TAATAAGTGG CGTATTTACC	180
AGTC	184
(2) INFORMATION FOR SEQ ID NO: 3200:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3200:	
TTGAGAAGCG TTTAGGAAGT AACGTTTAAC GACGACAGTC GTT@ATGCG ATCAAAATGT	60
TTTAACACAT GAATCGCTCT CGTACTATTC GTGTGTGACA CATGTTCTTC CAGCATTTGC	120
TTAATGAATG CTTTTTCTTC TTGGTnTTTA ATCTTTGTAA ACG	163
(2) INFORMATION FOR SEQ ID NO: 3201:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3201:	
GTTATGTTTG AGACTATAAT GAATAAATAT TTAGAAATAT GACTCCGATT GTTCGATGCT	60
TAATTCAGTT AGAAGCATCA TAAGAATGCA TGATTACTGG TGTAAAGATA CGTAATGTnT	120
TGTATTGACT GGATGTCTTT GGATAGAGT	149
(2) INFORMATION FOR SEQ ID NO: 3202:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 192 base pairs(B) TYPE: nucleic acid	

(i) SEQUENCE CHARACTERISTICS:

(C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3202:	
CAAGTGACTG AGATTACTGA AGTAAACCCG TTACCGCCAC ACTATATTTG TCCGAACTGT	60
AAAACGAGTG AATTTTCAA TGATGGTTCA GTAGGATCAG ATTGATTTAC CTGATAAACG	120
TGTGAAnTTG TGGAGGCCAC TATTAAAGAA GACAGAATCC GTTGAACATT TAGATAAGGG	180
AAAGTCCGAT TC	192
(2) INFORMATION FOR SEQ ID NO: 3203:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3203:	
TTGCAAGAGT TGTGAAGATA GCGGTTGATT TTGCTTATA ATATCAGCCN GCTGACTTTA	60
CGCCATCTAA CGTTTTTTGT ATTCGTTGTT GCTGAGCTAG TTGTAAGTGC CnCATTAAGC	120
ATCTTATAGC GTGATAGCCA TGCGCCAACG TACAAATCTG CTCCGTATTG TACGCACCAC	180
TAAGCAGTAC ACACCAGTAA CATTTGATAG CGTTATAGCG CAATATACAG TACA	234
(2) INFORMATION FOR SEQ ID NO: 3204:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3204:	
AACGCCATAA GCTACATGTA TGCTTCTTGC ATGGTTATCA TCCTCTCTTA ATGACTATCT	60
TTTAATTACG nAATGGCTTA CCAGTTTTTA ACATATGTGC AATTCTTTCA TATGATTTTT	120
AGATTTAGTA GCATAAGCAA TTTCTCCACG TTGATGTACG TGATGTAATG ATTCTGGG	178
(2) INFORMATION FOR SEQ ID NO: 3205:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3205:	
TATTAATCAC GTTGTTGC GTTCGTGTTT TCGCAGTATT GATTTGTTGT TGCGCATTAT	60
GCATTGCATT ATTGTACTGC GTAATTGTAC CTGGCTTTTT ACCTTCAGTG CTTACTGGnT	120
CATCTAAATG ATTTTTAGCT GTGATTA	147
(2) INFORMATION FOR SEQ ID NO: 3206:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3206:	
CAGCTGTACT AGTTGAGCGT ATTATCCAAA ACATTTTACG TGATGGCATT GATGTCGATC	60
GACTTTCAGT CGTAACGTTT ACAAACTTAA GCGCACGTCA nATGAAGCAT CGTGTAGACC	120
AACGTATTCA AGA	133
(2) INFORMATION FOR SEQ ID NO: 3207:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 145 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3207:	
TAGGGACTTT GAAGCGGAGA GTCTAATGCA TATGGGCAGC ATTATÆTCA GCAACTGCTG	60
AGAAAAATCC AGTTCTAGCT TGGGATTTAA ATGTGGAGTG GnTTAATGAA TGCATTAAGA	120
AGCTGCAAGA ACTTATAAGT GTGCA	145
(2) INFORMATION FOR SEQ ID NO: 3208:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3208:	
AAACGGTTTT AGATCGTATT CAATTGAAAA GGACCGGTAT TGAATGnAAT CACACTTAGC	60
AGCGATTGAT CAGaACATTT TAAATTAACT TATTTATCAA CGGTATATGA AGGGGATTTG	120

GAAGATGCGT T	131
(2) INFORMATION FOR SEQ ID NO: 3209:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3209:	
ATAAATTTAT CTATAATCTG TTGCTTGTTT TnCTGTTCTA CAAGTATTTT CACATTAGGT	60
CCCGCATCCA TTGTAAAATA ACACGGATAC CCCGCTTCTC GGCATTCGTG AACAGCGCCA	120
TGAÇATCATA ACTTTCTGCA CAGTAGGAAC GGGGGTG	157
(2) INFORMATION FOR SEQ ID NO: 3210:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 143 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3210:	
AACGTAATAG ATATGGTACT TACTACATGG GAGAGAGTGC TAGATTCACA AACGGCAATC	60
AACCAATCAC AGTAAGAGAA GTGGGGCCAT TCTTATŒnG TCCAGTGGGT TATCAGTTCC	120
AACCTGGTGG GTATTGTGAT TAT	143
(2) INFORMATION FOR SEQ ID NO: 3211:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3211:	
ATGCATACTG TATGTGTTCC AGCATATACA ATTTTGnCCA TCTTTAATGA CAACTGTACC	60
ATTTTTCACA ACATTTAATT CATCTAATTC CTTACCCTTC AAAGTTTATC TGTTGACTC	120
GGTAAAATTA ATTCTGC	137
(2) INFORMATION FOR SEQ ID NO: 3212:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 239 base pairs(B) TYPE: nucleic acid	

(C)	STRANDEDNESS:	double
IDI	TOPOTOCY: 1:	near

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3212:	
ATTCACGCTT TAAAGGACGT AAATACACGA CTAGGCTGTT TACCTTTAGA TCTAAATCAG	60
AACAATTTT TTACCATGGT GTTCCCCTTG AATTAGGAAT TTTATATAAA AATAAGCGGG	120
AAGCGTTGTG CCCCGCTTAC TCATAAGCTT TAATTAATGC TAAATAGTCT GACACTAGCG	180
ATTTGATAAA ACTATACTAA AATTATTTAG AAGTCACTAA GATGCTAATG ACGACnAnT	239
(2) INFORMATION FOR SEQ ID NO: 3213:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3213:	
CATCCTCAGA GTAGGAATAG CCATACCATC GAATAATTCA CGTACTGTTT CGAATTGAGG	60
TTCAAATTCT TGAGTTGTAT AGAGCTCGAA AATnTTTGCC CATTAGCATA ATCAGACTTT	120
TCAAAAGTCT TGATATTTGA TACCCACGCT	150
(2) INFORMATION FOR SEQ ID NO: 3214:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi)	SEQUENCE	DESCRIPTION:	SEQ	ΙD	NO:	3214:

CTAAGCATTG	GTTTAAACTA	ATGTTCAGAG	CTTTnTGTGG	TTTGTAAAnA	CAAGTATATT	60
nCGAGAACAC	GTTTTTGTAT	AGAGTCTCAA	TTATAAAAGT	TAGAATACT (GACAACAGTG	120
TTACGATATT	ATTAAACAAC	TGTcTATCAT	TAACGAAAGC	AATTAACAAG	AGTACtTGTT	180
GTGAAATCAT	CGTTTAATAG	TCAAAGATGA	TCATCGTAGG	gTAGACAACA	TATCaTTGAC	240
TtAAGGAAGG	GGAATGACCG	ATGGGATTAA	AAGATCAAGC	TGTTACCTGG	AGAAGGTATT	300
TTCATCAATT	TCCAGAACTA	TCCGATAAAG	AATTTAAGAC	TACACAAAAA	ATTAAAGATA	360
TTTTAACAGA	ACATCATATT	AGAATATTAG	ACTTACCAC			399

(2) INFORMATION FOR SEQ ID NO: 3215:

(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215:	
CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG	60
CAGATAATTT AGATAAATAA TTAMACTTA GACATTCACC CAATCCTGAC AAAATATACT	120
ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACGr	180
TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT	240
GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCAACATTTCTATAAA	300
ATTTTTCAAT AACAATTGCG CCACTAAAAC TCAAAATTTC CACCACCAAC ATCCAAATTA	360
TCAACATCGC AACATAACCA AATGGT	386
(2) INFORMATION FOR SEQ ID NO: 3216:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3216:	
AGTTGCATCA ACTGAATCCA ACGCTACGCA ATACGAATTA TTCCAATCTG GCATGCGTGT	60
TGGTAGAGAA ATTTTAGCGA CATCTCGAGC ACGGTTTACC TTGCCTTTnT TGGTGGCCAA	120
CTTGCTTTAT GCTATGGGTT TTTCAAACTT AAA	153
(2) INFORMATION FOR SEQ ID NO: 3217:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3217:	
CTTTGCATAT TCTGGTTTGT AGTATTCATG GTCCGTCAAT TGTAGACCCA TCAATTGCAG	60
CCATTACATA TGCGGAATAT CGAAGCGAAC TTCAAGTTGC TTCAAGCTGG TAGAACACGC	120
Anataaaatt attacatc	138

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 386 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(2) INFORMATION FOR SEQ ID NO: 3218:

	A E A !! E !! A E	CHARACTERISTICS
/ 7 1	SECTION NOTES	

- (A) LENGTH: 487 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3218:

CACTCCAAAC	CAAGGATTTA	CGTGCTTTAT	ATnGAGGTAA	AGCACATCAT	GTkGTTaATT	60
TTATGCmTTT	TaTTGCmCmA	GraTTAaGAG	AAATTTTAGC	nTCTTTAGGT	TTGAAACGTG	120
TAGAAGACTT	AGTTGGAAGA	ACTGATTTAT	TACAACGATC	aTCAACATTA	AAAGCGAATA	180
GCAAAGCGGC	TAGTATTGAT	GTTGAAAAAC	TGTTATGTCC	TTTCGATGGG	CCAAACACAA	240
AAGAAATTCA	ACAAAATCAT	AATCTTGAGC	ATGGATTTGA	TTTAACAAAT	TTATATGAAG	030
TAACGAAGCC	ATATATTGCT	GAAGGGCGTC	GCTATACAGG	TAGCTTTACA	GTAAATAATG	360
AACAACGTGA	TGTAGGGGTT	ATTACAGGTA	GTGAGATTTC	GAAACAATAT	GGAGAAGCAG	420
GACTTCCTGA	AAATACAATT	AATGTTTATA	CGAATGGTCA	TGCTGGTCAA	AGTTTGCAGC	480
ATATGCA						487

(2) INFORMATION FOR SEQ ID NO: 3219:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 176 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3219:

ACCAACTCGG AATCATGCAA TGAACACCAT GGTTGAAATA AGTGAATTGC ATAAGTATCC 60

TGGCCTGGCA ATGCTGGTAT AACCTAAAAC CTTGTTGCAC GNAATGTATT CGCTACAATT 120

AATGTACCTG CAAAACCGTT TAATAAGAAG TTCGAAATCG TECACCTGT ATATGG 176

- (2) INFORMATION FOR SEQ ID NO: 3220:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 203 base pairs(B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3220:

CTGATTTAGG TAATCTTTGC GCAATTGTTT TTTTACAGTT TCGGCAAATG GGTGCCCnGG 60

CAAATAAATA TTGGCTATGC TCAAACCTGA ATTAATGGTG GGTGTGTCCG CCATCGTAAT	120
TGGGnCCGCC TGAAGGGCCG CATATAAATG ATAGTGCTCT TCCGAATAAA AGGTAGGCCA	180
TATGTAATTG TTTTGTGGTT ACG	203
(2) INFORMATION FOR SEQ ID NO: 3221:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 361 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3221:	
AGCTAAATCT TGCCAATATG GTATCAACTT TTCATTCCAC TGATAATCAT AAATTTCAGA	60
GTAGGCTGTT GGCCAAGGTG TACAGGCCAA TTAGGCTTTT TAGCGGTATC ATCTGATCCT	120
GCAATGCCAG AAATGTATTA ACAACTGGCA CGTCTAATAG ATTGCTAACG GATTGTTTAC	180
GTACGTTCAT CGGCTTCTTT CGCTTCTATC GGATCTGGAG AATTGGGATG TTATGACCAC	240
TGAACCACTT ATTTGTAAGC TCTGTCGTGA TTGACTTCAT AATGCTTGCG CTTGnCCTCA	300
TTTCTAACAA CTCATCCTAC TTACnAAATT ACCCCnGGG TACACCTGGT CCACTTCATC	360
A	361
(2) INFORMATION FOR SEQ ID NO: 3222:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3222:	
GGGGCTCCGn GGAGGCAAGG GTAGAAAATG ATGTAAACGC TGCATTACTA GGCGAATTGA	60
AATTACATCA ATATCAAGCA GAACGGATCT TTTGTATGAC GCTTGGTACA GGCATTGGG	120
GTGCGTACAA GAATTAATCA AGGTTCATGT TG	152
(2) INFORMATION FOR SEQ ID NO: 3223:	102
<pre>(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear</pre>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3223:

TITGITAAAT ATAGGCCCTG CAATGAGTGT ACTGGAATGG CAATAATCAT ACCATACAGT	80
AATACATCTC CAACATTTGC CTTnAATTCT TTTCCCATGA CTACCGGTCC TGGGATGTGG	120
TGG	123
(2) INFORMATION FOR SEQ ID NO: 3224:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3224:	
GAGACAACAA CTTTAAAGCG TACCGGCCTG GTATTGAAGC ACGATTGATC TCACCATATA	60
TGGTTGGTAA CCGTAAATTA ATGCCTGACA ATGATATTAG CTnCCTAAGC ATATTTCTGA	120
TGATTTAACA CATTATGAAA CGAGA	145
(2) INFORMATION FOR SEQ ID NO: 3225:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 129 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3225:	
GGTATTGTCT AGTCAATTAC TAACACCATT TAATTGTGGn AAGCAAAAGC TAAAGGTTAT	60
CGTGCGCTAT TGCAGGCATT GATGCTTCCA ACAAAGTCGA GTATTCAGTT GCATCAAAAG	120
TTTGCTTTT	129
(2) INFORMATION FOR SEQ ID NO: 3226:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3226:	
GACACTACCG TTCCCACGTA GCATCAATCG TCTCAGTCGC ATCGTAGTCA TCTGTATGTG	60
TTCCAGCATA TACAATTTTG CCATCTTTAA TGACAACGTA CCATTTTCAC AACATTTATT	120
CATCTAnTCC TACCCTCAAA GTTATCGTTG ATCTCGTAAA TAGTCGGCAA	170

(2) INFORMATION FOR SEQ ID NO: 3227:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:	
TTACTGCTTT ACGTTTATCA TTTTCTAATT CANAAATTCG TCATTCAGTT TCAACTTTAT	60
CGACAGCTGG ACTTTGCGCA GATAAATGTG CTGCTGTAAT ATCTAACACA TCGATTGCTC	120
TTATCTGGCA ATAATCGTTG	140
(2) INFORMATION FOR SEQ ID NO: 3228:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 120 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3228:	
GCGCCTATAA TTGCCCTACT TGATTTAATT GAGTAGATAA ATCTAATCCG AATAAATCCG	60
TGACTTGCTT GATAAATAGC AACAATGCTn CAACTAAACC AGTTAGTACT GCTTTGTTTT	120
(2) INFORMATION FOR SEQ ID NO: 3229:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3229:	
GGCTATACAC CGACTACAGT AACATCTGGT AGCGACATTG AAAAAGACTC TAATGGTTTA	60
ACAACAACAG GTGTTATTAA TGGTGCTGAT AACAGTACA TTAGATAGTG GnTTCTACA	119
(2) INFORMATION FOR SEQ ID NO: 3230:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3230:

TGGGAATAGC AACCAACAAT GCGACAACAA AGCCCGCTAC AAATCTCCAT nAACTAATTG	60
CTAAATGTTG GAAAAATTTC TCCAGTCAAC AATGAAAGGC CATATGACTT TTTCCTACAA	120
GAGCAGGG	128
(2) INFORMATION FOR SEQ ID NO: 3231:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3231:	
AATGCAGCTA TTACTTTTCA CAGATTCCAT ATCGTTCAAC ATTTAAATAG AGAACTTAAT	60
AAGTATCGTG TACAAGTTAT GAATGANTAC CGTAATAAAA AAGGACCTGA TTATACAATT	120
TTC	123
(2) INFORMATION FOR SEQ ID NO: 3232:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1656 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3232:	
GCCTCAAAGA ACATGCTGAA CAGTCATCGC aTTCATATAG TTTGAAGTCT CGTTTAAAAC	60
CATATCTATC ATTACGGTAT GCATATCTTT TAAAACCTAT TCTTTTGTTA TTAGGACATA	120
TAAATTCATC ATTAAGTTCG TCATATTTCC AATTTTGAGT GTCGAAAATG TCACTTTTAA	180
ACTITCTAGT TITATCTITA ATAA&CATGC CATACGTAAT AAGTGGCGTT TTATTAAAAT	240
CATCTATAAT GGCCATATAG TTTTGCTCAC TACCATAACC TGCATCAGCT ACAAATAACC	300
GAAGTATTTT GAATCATTGT TAAAAATGGA ATTAAAGTTC TAGTATCTGT CGGGTTTTGA	360
AATAGGTCAT AGGATAAAAC AAATTGAGAA TTTGTCGCTA TTTGTAAATTGTATCCTGGC	420
TTAAGTTGGC CATTTTTCAT ATGGTCTTCC TTCATTCTCA TAAAAGTTGC ATCATGATCA	480
GTTTTAGAAA ArCTATTTCT ATCTTTAAGA ATCGATTTTT GTTCTTCATA TTTATTTTTT	540
CTTTCGGAAT AATCATCAAA TTTmTTTTTG AACTTCTTAA TCTTAGTTCT TTTTTaCGGG	600

660

720

TCTGTTTTCT AATTTGAGTA CTATCTTCGT TCTCAATAGA ATGATTTAAA yCTTCGATTT

CTTTATCTAA ATGACTACCA ATTAAATCTA TTTCTTCTAT TGTTAAATCG CTATCTCCAT

CTTCTTTTAT CTCT	GGTATT ATTTTTCTT	CAACTAAGTC	ACGATATAAT	GTTTTTGAAT	780
TTTCGTTCAA TTTC	GATTCG TGATTTTGAA	TACTTTTCTT	CCACACAAAT	GTATACCTAT	840
TGGCATTAGC TTCT.	ACTTTT GTACCATCAA	TAAGATTTTG	CTTTAAACAT	TGACTATGAA	900
ACTGGATAAA TAAA	GATTCA ATTAACGCAT	CAGTATTAGG	ATTCACTCTA	ATACGATTAA	960
TAGTTTTATA AGAA	GGTGTT TGATTTTGAG	CTAACCACAT	CATTCGAATA	CTGTCATAA	1020
GTAATTTCTC TATT	CTACGA CCAGAAAATA	CAGATTGAGT	ATATGCATAT	AAGGTGATTT	1080
TTAACATCAT TTTT	GGATGA TAGGATGTTG	CGCCACGATG	ATGTCTGAAT	TTATCGAATT	1140
CGCTATCAGG TATC	GTTTCA ACAATTTCAT	TAACATATCG	CGAAATATCA	ATTTGAGGAA	1200
TTCTAACAGA AGTT	TCTATT GGTAGTGTAA	GTTGGATCAA	GTTATAATTT	TTATACATAA	1260
GGCACTTCAT TAAT	TTAGTT TAGTGGTATT	TATTAAATTA	TACGAAGGGA	CCCAACACAG	1320
AAAATTCAAA TTAT	TGAATT AAACATTTAT	GTGCAAGTTT	GGCAAAGTGT	CTTATTTTT	1380
AAAAGTATGT AAAA	GTAAAA TTACATGTTA	ATACGTAGTA!	TTAATGGCGA	GACTCCTGAG	1440
GGAGCAGTGC CAGT	CGAAGC CGAGGCTGAG	ACGGCACCCT	AGGAAAGCGA	rccattcaat	1500
ACGAaGTATT GTAT	AAATAG AGAACAGCAG	TAAGATATTT	tCTAATTGAA	AATTATCTTA	1,560
CTGCTGTTTT TTTA	GGGATT TATGTCCCAG	CCTGTTTTT	GTGATTTTTA	ATAATTTGAA	620
TATGGrAAAT GTAT	TAWTCt CTCATTTGTA	TAGATT			1656

(2) INFORMATION FOR SEQ ID NO: 3233:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 130 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3233:

TTGCTCATAA ATCTTTCTT GGCGCTCTGA ACACTATCTT CTATTCTGTC GGAATTTTC 60

AAACATAGTC TTATCATTTn CTTCTAATCG CGTTAAACGC CAATCTTGTT CATGTCGTTT 120

GGTAAATCCA 130>

- (2) INFORMATION FOR SEQ ID NO: 3234:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 122 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3234:

GCCACGATAA AGAAGTAAGA ACAACACATG GTGTTACTGG TACAGGCTCA TGTTCTTGGG	60
AAAGTTATTT GTGnAAAATG GTGTGAATTA CCTGGGGAAA AATCAACAAA CTGACTATCC	120
AA .	122
(2) INFORMATION FOR SEQ ID NO: 3235:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3235:	
AACCAGGATA TGAAATCTGT GACTTATTGC GTTAGATCGT TTTGTAACTG CTACTATTGA	60
AGAAGCAGAC CAATATAAAG GTACCATTCA TTGCAAAAGC ATTACATGCA TGAACCCAGT	120
TGACATTTAG TTAGAGATGG AAGATAGTAT TGTGCATTTG CAGnTTCCAC ATG	173
(2) INFORMATION FOR SEQ ID NO: 3236:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 122 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3236:	
GCGGTGTGCA TTTGAAAATG TTATCAAGAA TATTGAGTTA ATTCGCAACG ACATTATACC	60
AGCGATTANA AAGCATTTAT CAAAATACGA GGGGCGTCAT CATGAATATT GTATTATTGT	120
CA	122
(2) INFORMATION FOR SEQ ID NO: 3237:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3237:	
TTTTTTGCCC AAAATTTTTG GGTTTTTTT GGGTTAAAGG AAAAAAAA	60
GGGGGGGGTC CCCCAAAAAT TTTTTTCCCT TCCCTTTGGT TTGGTTTTTT GGGGGGGG	120
CCCCCCCCT TTGGAAAACC CCTTAAAAAA ATTTAAnGGT TAAATTGGAA AAAAAAATTT	180

TACACATCTn TCTACGATTG TAGTTTATCG ATAGGTTTCG CATCATGAAA CGTGATAAAC 60

AACCAACATG ATGCTAGTTT GATTAAGTTT CTTCTAAACA GACTTCAAAC GGCAGTGTTT 120

AGCATAT 127

- (2) INFORMATION FOR SEQ ID NO: 3241:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 124 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3241:	
GACTAAAATA CATGTTGGAA TACTTGGTCC CATGGGAAAA TATTGGACTG GGTAACCCAA	60
TCACGGCTTC TGAAGTAGTT CTTTnTCTTC TATTAAAATA GCGACGGAAT CACACCTTCT	120
GCGG	124
(2) INFORMATION FOR SEQ ID NO: 3242:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3242:	
TACGTGTATA CACCGTTATC TTTATGGCTT TGAATTTCCA TAATAAATAC ATACGGnTTT	60
TGTGCAGAGC TCAGCACATA ATCATCTTTA ACTATAGTTT CTGGGAATCA CTTCATAGTT	120
TT	122
(2) INFORMATION FOR SEQ ID NO: 3243:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 221 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3243:	
AACCTTTTCT GCAACCATAC GCCATAGgTA TGtTTTCTTT TTACAATTAA AGaGCCAACC	60
GTTGTTATAG TCTAACAATG GTTGGCTCCT CTTATTTTAT GTGCTAAAAA TTTATAGGCA	120
ATTTATTAC AACAATGTAC ATTTAAGGTG ACCTTCATGC CAAAATCGCA TACTCATTT	180
AATGGAAGCA GCACGTCTTC ATACAAAGTC ACGATCCTAA T	221
(2) INFORMATION FOR SEQ ID NO: 3244:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3244:	

60

TTGCATTTTG ATTGTCTGGT GACCTTGGCA ATGACAATTC CCGCTTGCAA TCGGTATCTT

CAATATTATA ATCAGGTCTT GCCTTAGATT TTCGCTAAGT ACCGGTGATT CTCTACCATC	120
ATACTCACCT CATGnGCTAT TTTTCTAGAG TGCTTCTTTT CACACTTTAT CTTATAAAAG	180
GCTAGCTACT ATTACCGATT TATCATTATT AGTGGTTTTT ACCn	224
(2) INFORMATION FOR SEQ ID NO: 3245:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3245:	
GAAAGAGATT AGTGACAAGT TGGTTGTACT ATTACGTTAA AATTTGGAGA TTATGTGTGG	60
TGTTCAAGTA TGCGTTCAnT AATGATATT GGCGCACCGT ATAACCATGT CAAAGTA	117
(2) INFORMATION FOR SEQ ID NO: 3246:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: limear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3246:	
CTACAGGCTT TCGTACCACA GGATCAAAAC TACGCACTGT GCCTTGTACA TACGCATGAT	60
CAGCAATGAC ATTCCAAGTA TTACCACATG ATATTTGnCC AATTGTTACT ACCGTTC	117
(2) INFORMATION FOR SEQ ID NO: 3247:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3247:	
TACACAnCTT TCTACGTGTG TAGTTTATCG ATAGGTTTG CATCATGAAA AGTGATAAAC	60
AGCCAACATG ATGCTAGTTT GATTAAGTTT CTTCTAAACA GACTTCAAAC GGCATGT	117
(2) INFORMATION FOR SEQ ID NO: 3248:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(x1) SEQUENCE DESCRIPTION: SEQ 1D NO: 3248:	
CCCGTCCTTT GGTGGAACCG TTTTGTAGAA TTAAATAATA TTACAGAGCC GCTAGCAGTA	60
ACGATCCAAA CGAATTTACC ACCATCACGT GGATTAGGAT CGAGTGCACT GTCGCGGTG	120
CnTTTGGTCC TGCCA	135
(2) INFORMATION FOR SEQ ID NO: 3249:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3249:	
AAAAGCCAAC CCATGnAATG TTGGATTGGC TTTTTACATG CCATCTGAAT CTCTAATTTT	60
AAAAAAATAT GGAATATAAA TAAGACAGTA AAAATTAAAT TTCAGT	106
(2) INFORMATION FOR SEQ ID NO: 3250:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250:	
AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAn	60
TCTAGTATTC CAAGTTGAAA AAACTTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA	120
GA	122
(2) INFORMATION FOR SEQ ID NO: 3251:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251:	
GAACGTTGAG ATGTCACAAA CT&TGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC	60
CAAATTCATC AATCACAATT ACTCCGAAAG CnGGTACAGG TCACTCAGTA AGTAGTAATC	120

CCAGTACATT AA	132
(2) INFORMATION FOR SEQ ID NO: 3252:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3252:	
GGAAAATCTT CAAATTCTGC AAATTGCCAA TTTACCTAAT AACAAACAT CTAAGGCATG	60
TGTAATGCTG CTACnTCCGC TTCGTCATCA GCTACAATGA CAAATACAGG TGCCA	115
(2) INFORMATION FOR SEQ ID NO: 3253:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3253:	
TTTCGTCAAA TTATGGGAAT AAAATAATCA TATTTAAGAT AGTAAATATT GAATAAGTTG	60
CTTTGAAATT TATAAAATGA AAGTATAGTG TCATGGGnAG TATAATAGTC AGATATATAT	120
GTAACGCCAC TATATTGAAA	140
(2) INFORMATION FOR SEQ ID NO: 3254:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3254:	
AAATCTCCTA CTTTTCTAC CCATAAATAA TTGGCTAACT TTTTCATCTT ATCTTCATCC	60
TTTCTCTTCT ATTTAAAATG CTACAAATAA ATTTCCGCGA GTAATTTTAA TGTTTTACAA	120
CGCTGTTCAA TACCTGGAAT AAGCGGTGCT ACTAACACCT CATCAACTTC ArACGTAGCA	180
ATGAAATCAT CTAATTGTGC TTTAACCTWT TCTTGTGTAC CTGcAATGAT GCGTGCTTGg	240
ATGTGCTTGA ATCATCTCTT TGTCTCGATC ATTAAGCTTA TACTTTTGTG CTGTGTCTAC	300
TGAAGGAAAA TCTTCAAATT CTGCAAATGT AATTTACCnAATAACCAAAC ATCTAAGGCA	360
GTTGTAAGCG GCnACTTCCG CTTCGTTATC AGCnACAAG	399

(2) INFORMATION FOR SEQ ID NO: 3255:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3255:	
ACCATTCGTC AAAATATTCC AACACGCATT TAGGTGTGCA AGGTATCGGT ACCTAACAAC	60
GAAGCTATCG TCTCACTAnC CTTAAAAGAT TTTAGAACAA CAGCTGCACT CATCAT	116
(2) INFORMATION FOR SEQ ID NO: 3256:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3256:	
AAAGACCTAA GGTTATGTAA TTGGCCTAAA TTTATTAATC GTTTAAnTTC AGTTAGTAAA	60
AAGTCTGTGA GTAAGGGTGT ATGGAAACTG GTTAAATATT ATAGAG	106
(2) INFORMATION FOR SEQ ID NO: 3257:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3257:	
AACGTCCATC GTAATACCTT TTGTGTCTAA TGTAACTTGT ACATCGTCTA ATAATAAGTT	60
GACGATATCT TGACAATGCA TCTTTATCTA GATGTAAGAn TTCAACGGAT GCCG	114
(2) INFORMATION FOR SEQ ID NO: 3258:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3258:

TTAAAGCAGT TAATCCACAG GGAAAGTGGT TAATACAGTT GGGCTCTGGT GGATAGTACA	60
GTTGCAGGCA TGGTGGGCTG GGAATTGCTT CAGGGTTTAA CGAnTGGGAA AAGCCTT	117
(2) INFORMATION FOR SEQ ID NO: 3259:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3259:	
GGACCGCCAT ATCGTTGGCA ATCATCGCAC CTATAATCAT CGCAAGTATA ATAATATTAG	60
CACCTTGCAT ACTTTTAAC CAGGTTGTTA ATGCCTCAAA AATATTAGAA ATTGGTGCCC	120
GnTT	124
(2) INFORMATION FOR SEQ ID NO: 3260:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3260:	
TACCAATGTA TATCCATATA CTTTTATCAT AATCATTTCAGCCGACTTTA GTTTGATGTT	60
TTTGCTTGAT TAAAATCTTT CGGCGATCTT CAGCTTGATG TTTTCGTTTG ATTAAATTGG	120
TACAATAnAT	130
(2) INFORMATION FOR SEQ ID NO: 3261:	
 (i) SEQUENCE CHARACTERISTICS (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3261:	
GGCCTTTTTG GGCCGGGGTT GGAAATTGGG GTTGCCTTAA TTTTTTAATT AAATTTTGGA	60
ATTAAAAAAG GAAAAAnTCC AAAGGTTAAT TTTAAAAAAA GCCCAAGGTT TTAAAAATTC	120
CCCCAACCAA AAAGGGGGGG AAAAAAGGTT GGGGGTTTTA AAAATTAnCC AAGGTTTTTG	180
GGGCCCTCCC TTGGGGGTTG GGAATTAAAG GTTAACCAAG GTTTTTGGCC AAGGGGCCCA	240
ATTGGGGGTT GGGGCCCTGG GGGAAAATTT TTGCCCTTTC CCAAGGGGTT TTTTAAAACC	300

CGGATTTTTG GAAAAAAAA AGCCCATTTT CCCCCCAACC CnAAAGCCCA GTTCCCGCCC	360
ATTTTCCCGG GGTAACCCTG CCCCCACCGG GGCCATTTTT	400
(2) INFORMATION FOR SEQ ID NO: 3262:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3262:	
TGGTTCAATG GAAACGTGTA CCGCAAATnC CGTTAATGT TGTTGGATGT TGAGAGACGT	60
GGCTGAACTG GCACATTTGG GCAATGACCA ATGGAACAAG CTAATGGGCA AGCGATTATT	120
GCGACGGCTG ATGG	134
(2) INFORMATION FOR SEQ ID NO: 3263:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263:	
TTTTTTTCTG TTGGTACTTG TTTTGTGGTT GGCGATTGTG GTGTGTCTGA nTTAGAGAT	60
TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTTT	105
(2) INFORMATION FOR SEQ ID NO: 3264:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEINESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264:	
GTTCCATCAT TCCCACCnAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG	60
CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT	107
(2) INFORMATION FOR SEQ ID NO: 3265:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 109 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3265:	
TACAATGTTT AATAAAATTG TTTCTATTAA TTGGCGGCTT GCAATCAATG GTGCTTCTAC	60
GTCGTAACAA TGGTTCGTTA CCAAAGCATA nTTCGCCTTC TTGGCATCG	109
(2) INFORMATION FOR SEQ ID NO: 3266:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3266:	
TTACCTTTAA AATAAnGTTC TCCACTAGTT GGGCTAAACA AATTACATAT TTTGCTTTTG	60
GAAATGTACT TTTTACCACT ACCTGATGGA CCTATAATGG GCAA	104
(2) INFORMATION FOR SEQ ID NO: 3267:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3267:	
TAAGCCATCA GAAACAAATG CATATAACGn AACAACACAT GCAAATGGTT CAAGTATCAT	60
ACGGTGCTCG TCCGACATAC AAGAAGCCAA GCGAGAACGA ATGCATACAA TGTAACA	117
(2) INFORMATION FOR SEQ ID NO: 3268:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3268:	
GCTGCACAAG CACAACCTGG AATCAGCAAC ACCGG@AAC CAnCAGGTCA AGGAATAACC	60
AAGCAGCACC TCATAATAAT GCAACACCGG CAATCAAACA C	101
(2) INFORMATION FOR SEQ ID NO: 3269:	

(i) SEQUENCE CHARACTERISTICS:

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3269:	
CATACCCTAT TTTAGATATT ACCTTATTAC AAAATATTTT TACATTAATG TCAGCTGCAG	60
GTTAGTATTG TTTTCCAAAA TTTACCGGTC ATCTTTGCCA ATTGGGTGTC GCCAACGGG	120
ATTTATCCTA GGAAGCCGAT TAAAAGGGTA CTGCCAGGGT TTTAGCCTGC nGCTGCCTCG	180
GGGTTTTCTT TAAATTAATG nAACCGC	207
(2) INFORMATION FOR SEQ ID NO: 3270:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3270:	
ATATTCGCAC CACCATAAAC ATAGATGGTG TTTTGTCCTT CTGCATTCAC AGTGATAAAA	60
GGGCTTGGnC CCGTTTTTGC TTCAGCTGTT TTGAATAATA TATGATG	107
(2) INFORMATION FOR SEQ ID NO: 3271:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3271:	
TTGGTTACAC TTCTGCTAGT TTTAGTAACG ATGGTCCAAG ATTGTATGAG CCTATTCATG	60
GATCAGCACC AGATATTGCA GGTAAAAACG TTGCCAATCC ATTTGGGATG GTTCTnATGC	120
TT	122
(2) INFORMATION FOR SEQ ID NO: 3272:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(A) LENGTH: 207 base pairs(B) TYPE: nucleic acid

(xi)	SEQUENCE DES	SCRIPTION: S	SEQ ID NO: 3	3272:		
GAAGGATGAT	GATTCGGAGC	AnCTTCTTGC	AGAAGAnGCG	GnAATAACGT	GACATATTGT	60
ATTCAGTTTT	GAATGTTTAT	TTAACATTCA	AATATTTTTT	GGTTAAAGTG	ATATTGCTTA	120
TGCGAGCGCT	TGACAATCTA	TTCTTTTTAA	AGAAAGCGGT	TGTTAGEAA :	rgcattaa g a	180
GAAATTAAAG	CGGmGTTTAC	TTTTGTAAAT	GAGCATTTGA	TTTTTTGAAA	ATAAAGCAGT	240
ATGCAGGCGC	TTGACTAAAA	AGAAATTGTA	CATTGACAAC	TAGATAAGTA	AAGTGAAAAT	300
ATAGATTTTA	CCCAAGCAAA	ACCGAGTGAA	TAAAGAGTTT	TAAATAAGCT	TGGATTCATA	360
(2) INFORM	ATION FOR SE	EQ ID NO: 32	273:			

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 112 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3273

 TCAATTTAA CTGCAAATAA TAAAGCTGCA TGATTTACTT TGTACATTAT TGTAATTTCA 60

 GTAATACGAG GCAATGTCAG TnGCAGTGTT TAATAAATTT TGTTCGCTAT TT 112

 (2) INFORMATION FOR SEQ ID NO: 3274:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 336 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3274:

TACATTATG CAATCAACGT TACATTCAAT CGTTGGAGAA AATTGGCTTT ATTGACTTAC 60
TAAAAATCTAA AAAATCATAT GAAAGAATTG CACATATGTT AAAAACLGGT AAGCCATTAC 120
GTAATTAAAA GATAGTCATT AAGAGAGGAT GATAACCATG CAAGAAAGCA TACATTGTAG 180
CTTATGGGCG TTCAGCGCAG CGAAAGCAAA GCAAGGCGCA TTATTCCACG AAAAGACCTG 240
nTGATGTCGC AGCCAAAGTA ATTACAAGGC GTATTTGAAA ACCATTGAC GGGAnAAATT 300
CCAATAAGGA TTATGGATTG NAAGATGGTC CATTTG 336

- (2) INFORMATION FOR SEQ ID NO: 3275:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 138 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3275:	
CAAATGCTTT TGCCACCCCA GATGCAATGG TACCAACACC TGTTTTCGAA ACTAATTTTA	60
CCGGCGATAT CTGGCATCTT TTATTTCGGC ATTTTTTCAA ATCATGGTTA TTCCAGTTTG	120
GCGGCTTAAA AATTCnTT	138
(2) INFORMATION FOR SEQ ID NO: 3276:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3276:	
CATTATACGA GNATAAGTAA AATTGATGAT GTGACTAAAA AAGATGCACA ACAATTATTG	60
AAGATGCAAA AGAATTGCAT GCCAAGCTGA TACATTAGAT A	101
(2) INFORMATION FOR SEQ ID NO: 3277:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3277:	
TGGTTATTCG TTCCTGATCG TTGTTGGTAT CTCACTATTC AAnATTTATC GTGTGGCATT	60
ACTITAGITA CACCAGGIAC ATTIGAACCI GGCACTIGIT GCGAGTATIT CCGGICTCGI	120
CATT	124
(2) INFORMATION FOR SEQ ID NO: 3278:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3278:	
GACTTTTTGA CCAGTTGTAG CACGACCAC GAGAGTAGCA TTGCATATGC AATCATTGTA	60
CCTTCGCCAA CGACTGnGCC AATATTAATT GTTGCGCCCA TCATAACGAC	110

(2) INFORMATION FOR SEQ ID NO: 3279:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3279:	
TTGGTATATA GAGGGCAACC GCACCTGATA AAATGTGnCA CAGTTTTTAC AAGAGGTTAA	60
GGAATGAGTT TGGAGGCATA CGAGCATCAA GATACCATTC GATGTTAGA ATT	113
(2) INFORMATION FOR SEQ ID NO: 3280:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3280:	
TTACCGTCAC CGTAATCAGT CCATACTTTA TCAGCTATAC CGGCTTTAAC AGCATAAATG	60
TTCGTTCCTG TAGGCATACC AAAGnCGATA CCATAGTGAC G	101
(2) INFORMATION FOR SEQ ID NO: 3281:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3281:	
ACTATGTTTG AnAAATTCGA CAGAATCAGA AGCACAGTCT GAGAACGCAA GAAAAAATTT	60
ATGACAAGTT AGATAGAAAT TTCGACGAAC TAAGGGCGTG ACCAAGAAGA AGATGA	116
(2) INFORMATION FOR SEQ ID NO: 3282:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3282:	

60

ACTTGGTTAG ATAATATAGC GTCGATTGTA TCACGAGTGT CTGTTCCAGT CATTATAAAA

GAAGATGGTA CACTAGCATC AACAAATGAA GTAATGATGA TGGGAATTAA TCAGCACACA	120
CGTCGTTCTG ATGCTTTTCC TGAATCAT	148
(2) INFORMATION FOR SEQ ID NO: 3283: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOROLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3283:	
AAATGACGAT AGAGTCAGGT ATTAACTCAT TTTnCAATAG TATCAGGAAG ACTACCAAGC	60
TTATGTTGAA GGGCATCTTT TGGCGTTACC GGGTTGGGCA	100
(2) INFORMATION FOR SEQ ID NO: 3284:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3284:	
TTAAGAAACC GAGCAGCGCA TAAnCCTGCA GTACCTTATC GCTTCTAGAT AATCCGATTG	60
CGACACCATT GCAAGATGAC CGGTAATTTT GGAACATATA C	101
(2) INFORMATION FOR SEQ ID NO: 3285:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3285:	
TAAAATATTT CGCATCCCTA CACGCTAAAA TAATACATTA CACTTAAAAC GGCTGTTTTA	60
AAGCATCCTC CCATAAACAT CATCTAGTTG ATAATAGGGG GGGGGn	106
(2) INFORMATION FOR SEQ ID NO: 3286:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3286:	
TTTAACAATA CCTCAGAACA TACTATGGAA ATTGCTGCAA AGTTAATTGG GCATGCATAT	60
TGATCATAAT GCGCTTTTAA ATAAAATGGT GGAGA	95
(2) INFORMATION FOR SEQ ID NO: 3287:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3287:	
TCGAAATAAT ATCTACGCAC ACTGATAACA TAAAAATGCC TGGTAGAATA CTAATGAAAT	60
AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCnAG AACCCATTTT TTGAATATTT	120
CACCACTCGA ATCATCAATA C	141
(2) INFORMATION FOR SEQ ID NO: 3288:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288:	
TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA	60
GGCGATACTT GGGTTATCCA TGGTGAAAGn AATGGATTGG TGGTGCA	107
(2) INFORMATION FOR SEQ ID NO: 3289:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 89 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289:	
GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA	60
GATTTACGTA TGTCTACAAG TTTAGGCGC	89
(2) INFORMATION FOR SEQ ID NO: 3290:	

(A) LENGTH: 108 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3290:	
TGTTACGCCA ACAACAAATC CTACGTCGAC AACTATTTTT AAGCGATGAT TGCAATTAGA	60
CAGAAATCCA ATCATTTTTG CATTCCATCC AGTGCACAGA ATnTCGAG	108
(2) INFORMATION FOR SEQ ID NO: 3291:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3291:	
GATCAAGnCC TGAGAATTTA ATTTAATTTA TTTTTATATT GGAGATGGTT AAAATGCTAA	60
AACTCAACAT GAGTAACCAA AATATTGCCC TTAAAAATGC TGATCATTG	109
(2) INFORMATION FOR SEQ ID NO: 3292:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3292:	
TTGATAATTT TGATATAGAA AGTTATTTAA AATTCGAATA AAAATAATAA CTCATCGACG	60
TTTAATGGCT AGGTTCCAAT CAACTATGnG ACATAAATTC AAATTCGATC ACGTAACGAA	120
A	121
(2) INFORMATION FOR SEQ ID NO: 3293:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 393:	
AGGTGCCCGT GATAGTTAAn AAGCCATTCA TAGTTGCGTT CATATTTAAG ATACCGAGCA	60

GCGCGTAATA CCTGCAGTAC CTCTATCGCT TCTAGATAAT GCGGTTG	107
(2) INFORMATION FOR SEQ ID NO: 3294:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3294:	
AAAATGTTAA ACCAAAAAGT TTGGTGAGTT ATAATATGGA ATATTAAATC TGTAGAAGAT	60
AAAGCGAATA TAAAGTGATT AACTTTGGTA ATAAAGAATT AACAGCGAAA n	111
(2) INFORMATION FOR SEQ ID NO: 3295:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3295:	_
CCCCGACTAA ATCGAACGCT TTAATGTAAT GATTTGTCCG AATCCCCATC CTGCACCTGA	60
TAATAAGGCG AATAGCAAGT TGGTTCCCGT nGGGAAGCCA CTTGA	105
(2) INFORMATION FOR SEQ ID NO: 3296:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3296:	
ATTTATTCAA AACCCGCCAC ATGGGGCAAC GGTTGCCATG GCATGATAGT CCAGATACAT	60
GGAAAGGAAT ACAGTCCGGT TAACACTCCA TTAAAAACCT GCGGGTTGGT TAAACCATTT	120
AACCTAAATG GGTTCCAAGG GTTAACGCGG TTTAAATGTT TGGAAAGGTT TnCCCAGTTT	180
CCAAAAAGTT TTTnATTCCC C	201
(2) INFORMATION FOR SEQ ID NO: 3297:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 415 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3297:	
TTTAGACTTT CATCAGTGTT GAATATTTCT CCTTTAACGG TTATAGGTAA TATTTCCTGA	60
GAAATATTTC CATTCTTTAC ATTTTCCGCT GTCAATTGAT GACTTCGATA AGCAAATTCA	120
TCTTGTAATT CTCTTGAAAC ATCATACATC TkGGCCACAT TTTCAGCACC TkGAATCATT	180
GATGGGTCGC TCATTTCAGG TGCAAATGAT GCACGCTCAT AAAACTCAGG TAATGCTGTT	240
TCGTACACAG AATGCGGTCG TTTGATTTTC CAAGGTGCTC GACTTGTACT TTCAACACCA	300
CCTGCAATAT ATACCTTGCC AGCtCCGGCT TGGATCATGC GACATGCATA TTGaACACTT	360
TCAAGTCCAG ACCCACATTG cCGATCGrTT GTaCGCCAG TATTGAAGCT TAAGC	415
(2) INFORMATION FOR SEQ ID NO: 3298:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3298:	
TTAATTGCAG CAGAGCGACT AGCTGATTCA GAGGTGTTAG TTTGTACGGT AATAGGATTC	60
CCATTTAGGT GCATCGACCA ACTGCCCGAC GAAAAGCCAT TTTGAAAAACC AGAAnGATGC	
CGATTCAAAA ATGGGTGCCA AGATTGAAAA TTTGGACCAA TGGG	164
(2) INFORMATION FOR SEQ ID NO: 3299: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3299:	
GTAGATGCCA TTTTCACGTT TCTTAGTTAT TGGCATTTTT TAAATGCGAT GTGTGGCTTC	60
TACATAACGG GAAATTTTAA GTTTTATGAA TCNACATATC AATTGC	106
(2) INFORMATION FOR SEQ ID NO: 3300:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 102 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3300:	
AAAAGGTGTT ATGAGATTAG TAAATCANTA GACAAGCAGG TAAATTAAGT GATGTCGCGT	06
CATTTAAGGA AGCGATTCAC AATCGAGAAC ACAAAGTACA AC	102
(2) INFORMATION FOR SEQ ID NO: 3301:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3301:	
TTAAAAGTTT GGAGATTATC GTGTCGTCTT CAAGTATGCG TTCATTAATT GATATTGGCG	60
CACCGTATAA CCATGTCAAA GTACCATTTG nAATCAGTCA TTGGCGCATT GGCTGCCCTA	120
GCGTTCA	127
(2) INFORMATION FOR SEQ ID NO: 3302:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3302:	
CCAGCTAGAC GATTGCTAAG GTATTGGATG TTTGAAACGT CCATGGACCC AATTGATTAA	60
TTGGnTGTAA CTCGGTCAAT GGGTATATCC TAAATGCACT GGCCTGCTGG TGTTCTTCTG	120
GGCGTTGCTT CGGAAAT	137
(2) INFORMATION FOR SEQ ID NO: 3303:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3303:	
GGATTACGAG ACCTGATTAG ATTTAGCGTG GAAGGATTAT CTAGnTACTA CAGGAGATGT	60
ATATAAATTA ACGACGCGTT AATGCAGGCT GATGTGATTT TTATTGGTTT CCCAATTTTC	120
AAGCTTCCAT CCCTGGTGCT TTGAAAAATG TGTTTGATCT ACTTCCAGTC AATGCGTTC	180

GTGACAAGGT AATAGGACTT GTAGCGACAG CAGGTTCTAG TAAACATTAT TTAATTCCTG	240
AAATGCATTT AAAACCAATA TTGAGTTACA TGAAAGCACA TACGATGCAA ACGTATTATT	300
TATTGAAGAG AAAGATTTTT CAAATCAACA AATTGTCAAT GATGATGTTG TATTTCGGTT	360
AAAAGCGTTG GCACAATCCA CAATGCGAAC TGCCAAAGT	399
(2) INFORMATION FOR SEQ ID NO: 3304:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3304:	
CACCATTATT TACAGGACCT nCGATGACGT GTGGTCCTGT GTTAAGACAT AACATAATAT	60
TCTACCTTTG TAATCAGTAC GGGTTTATCT ATCACAGTAC GG	102
(2) INFORMATION FOR SEQ ID NO: 3305:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 202 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3305:	
TCAGCGTTAT CAATGANTGA CTCTAATGC TTTTTACCCA TTTTTGTAAA TGGAACATGG	60
AAGCATAGAG ATGCGrAGTC AGCTAGCGAC TTACCTTGAC GTTTTGCGTA TTCATTCCAG	120
CTTTGTTGGr ATGAGCGGAT ATAAGCATCT TTAGATAATG CACCATCAAC TAATGGATAT	180
TTATGTCCAG TTGGACGCCA GA	202
(2) INFORMATION FOR SEQ ID NO: 3306:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3306:	
AAGATAGGGA TTTACACCTA TACCTCGTTC CGGGGAAGGG TCGGTGTTCT GAAAAGTTGG	60
AACTACTCCC GnCAAATATT AAATTATGGG AGCGGGAAGG ATCAGGGATT TGACACCTAT	120

GACCTCCATT CCCAGGGAAG GGAATGTGAT T	151
(2) INFORMATION FOR SEQ ID NO: 3307:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3307:	
AATTTCGTTA CCTGCGCCTT CTTTTTGCGG TTTTTAAATA AGCGAAAATT TCAGGCGGTA	60
AGACATAACG TCCCAGAATA GCTAGGG	87
(2) INFORMATION FOR SEQ ID NO: 3308:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3308:	
ATGATGGCAA AGTCACCAAA CTGATTGTGC ACACCAATCC ATCCATCTGC GCTGTAAATA	60
ATGGTTCGCA ATAATTTTAA AATACCTTCC GCTACATTTG ATTTAAAGCT GGTTGCGCAn	120
TGGACTAGA	129
(2) INFORMATION FOR SEQ ID NO: 3309:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 128 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3309:	
GTTCCTTTTA TCGTAGTTGG TGGGACTCCT TATCGGCATC GCGGCTGGAC TCTAGGCGGT	60
GGAnacggac attcaaaagg gatttagttc atcccagatggatttcattt tggggaattc	120
CATTTGGA	128
(2) INFORMATION FOR SEQ ID NO: 3310:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(XI) SEQUENCE DESCRIPTION. SEQ ID NO. 3310.	
GTACGATTCA GCATAAAGTA CACCACATTT GTCACTACGA CATCTGTAGC TGGTATTGAT	60
CATGCAATCA TGAATAACGC TAA	83
(2) INFORMATION FOR SEQ ID NO: 3311:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQID NO: 3311:	
CTGAGGATAA AGCGTCTCCA AGATAAGTCT AAAGATCATC ATAATGGGCA AAAAAGGTGG	60
CAGCGATTCG GTGGCTGGGA ACAAG	85
(2) INFORMATION FOR SEQ ID NO: 3312:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3312:	
ATTTTATGTC TAAATGCTGG ACCAACAGTA TTGGCTATTA TTTGGTAACG TGATTACTAC	60
AAAAAATGGA CCGTTGAGTT CGTGGCACAT GATTGATTTT GTAAGTAAGT ATGATGCACA	120
TGGGCTnTT	129
(2) INFORMATION FOR SEQ ID NO: 3313:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 82 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3313:	
TCACCTAAAA TTAATCAAGG GACTTAACAT TGGCGAGTCA AGGTATTGAT CAAGCTAATG	60
GCACAGTTAA ATGATGCCAA AG	82

(2) INFORMATION FOR SEQ ID NO: 3314:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3314:	
ATGTTATGGA AGAATATTGA GTTAATTGGC AACGACATTA TACCGGCGAT TAAAAAGCCT	60
TTATCAAAAT AGTGAGGGC GTCATCA	87
(2) INFORMATION FOR SEQ ID NO: 3315:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3315:	
TGAACCCGTC GTTGCCCATT TGCCGGTTCC CGAAAGCCGG CGCCACGGT TCTCCCTGCC	60
TAAATAGGGG ATGGAATATT AAACCATCTG CACCTGGTTT AACACGCTTT GCAATTTGAG	120
TTAAGACATC ATAAGG	136
(2) INFORMATION FOR SEQ ID NO: 3316:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3316:	
CATTGGCTGT GTCCATTTTT AATCGTTGCG AGTACGTnTA TTAGCAACTT GGAACTGCCA	60
TTGTTAATTT CAGCTGTCTG TTACATTTCA ACCATAGTCT TTCACAAT	108
(2) INFORMATION FOR SEQ ID NO: 3317:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 142 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3317:	
ΑΤΟΤΟΝΑΘΟΤ ΘΕΘΤΤΤΡΟΤΝ ΕΝΕΝΑΕΘΤΑΤ ΕΤΝΟΕΤΕΝΟΝ ΤΕΝΑΤΤΝΟΤΑ ΑΤΕΘΑΤΤΡΑΤ	60

(A) LENGTH: 87 base pairs

TCATCGAGTT ACATCTATAG TTTATTAAAT CAGATACGCC AAAATGCnAA TTAGCTTACA	120
AAGATGATGC ATTAAATGCA CG	142
(2) INFORMATION FOR SEQ ID NO: 3318:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3318;	
AACATTATGT TAATCAACCT AATGAACGtC TTTATAAATT ACGCTAAACA ATATACAGAT	60
ATGCCGTTTC TTATCATGCT GGATGAAGAT GAAAATGGAT ATAAAGCGGG TCGATTTTTA	120
AGAGCGAGTG ACTTAGGTCA AACAACAGAG CAAGCGAAT GGAAGCCAGT TATTCATGAT	180
GCAATCAGCG ATAGTTTAGT AGTACCTAAT GGCACAATGG GTCAACGTTG GGAAGAAGGT	240
AAGAAGTGGA ACTTAAAACT AGAAACAGAA GATGGTTnTA AAATTANCCC TACATTATCA	300
ATGACAGAAG GTGGATACGA ATTAGAAACA ATTCAATTCC CATACTTTGA TAGTGATGGA	360
GATGGGATAT CATCGTCCAA TCCnAC	386
(2) INFORMATION FOR SEQ ID NO: 3319:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3319:	
ACAATGAATG ACATGATTCG AGGTGGACGA CCCCTCCTAT TTTGCATAAA TGCTTTTTGA	60
ATCGCCGGTC ATAATGTTCG TTGnCCAATT AACTCAATAT TCTTCATGAC ATTTTCAAAT	120
GGC	123
(2) INFORMATION FOR SEQ ID NO: 3320:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 104 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3320:

GGCGAACTGT CAATTGCCGG TATACAACGT ATTTTAAGAG CTGCAGAACA TNCGGGTGTT	60
AAACGTGTGG TCAATGACTG CCAACTTTGG TGCAGTTGGT TTTA	104
(2) INFORMATION FOR SEQ ID NO: 332:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3321:	
GCGCCGGTTT TAACAGGTAA TTTAAAACCA AATACTGATA GTAATGCATT AATAGTCAGC	60
AAAATACAAG TATT	74
(2) INFORMATION FOR SEQ ID NO: 3322:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3322:	
TCACTCAGGG GGAGATGTCA ATGGGTCAAC ATTATTTGAC AAGGTGTGGA CAGACATGTG	60
TTATACGGGA AATTGGGCGA CCGCACT	87
(2) INFORMATION FOR SEQ ID NO: 3323:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3323:	
TGCCAAATGT TCCCATAATT TCATTACGAn TCTTAAGTAG GTGGCTATCA TTACGATGCG	60
TGGATGTGAT GCTGTAATTT CATATTGAGA AATAATATTG CACCCTTCAC CTAACAGAAC	120
AATGCGGTCG GAAAGATAAA TAGCTTCATC AATGTCATGC GTCACTAAAA TAATAGTTGA	180
TTGCGTTTTA TGTTTTAGTT GCACTAGTTG ATCCTGAAGT TTATAACGTG TAAATGCATC	240
TAATGCACCT AATGGCTCAT CCATCAATAT AACGTTAGGC TTATGCACAT GCGCTCGACA	300
TAGTGCCAAA CGTTGTTTCA TACCCCCGGA cAGTTGCTCG GGAAAATGCT TTCCCCTGTC	360
TTCTAAATCA ACTAATTTAA GCTGTGCGTT AATCTCTTCA	400

(2) INFORMATION FOR SEQ ID NO: 3324:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
/ '\ GEOMENICE DECORETENTON GEO. TO NO. 2204	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3324:	
GAAACCATCG ATTGTAGCAC GAACCATGTT GGATTGGTGT GTTTGnATCC TAATGTATTT	60
ACTTAAGATA TCAGTGATAC CTGTCTAATT GCAAGTACGG TCAGGA	106
(2) INFORMATION FOR SEQ ID NO: 3325:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 113 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3325: TCTGAAnTCG CTGTCTGAAT CTGGAATCAC TGTCTGAAA CCGAAATCGC TAATCTGAAA	60
TCCTGAAATC CGCTAATCTG AAACCTGGAA GTCGCTGGTC TGGAAGCCCT GAA	113
	110
(2) INFORMATION FOR SEQ ID NO: 3326:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3326:	
TGTCACGTAC TTGCTGTTCA ACAAATACGT CTTACTGGAC GTGCACCTCA TTCTTCATCA	60
TAGCCTTCTT CATTAACC	78
(2) INFORMATION FOR SEQ ID NO: 3327:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 119 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3327:

AATTGAAAAT TATCTTACTG CGGTTTTTAG GGGTTTATGT CCCAGCCTCT TACTCAAATT	60
ATATTCACTA TCCATTAGAC CAAATGGGCC ATTTCCAATA ATCCCGCGGT GGTTTCCGA	119
(2) INFORMATION FOR SEQ ID NO: 3328:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3328:	
GTGTTAAAAC GTCACGACGT TTGTTTAAAA TGATGCGTCA TAATGTCTAC ACTTTGCTTG	60
CGATCATTCA T	71
(2) INFORMATION FOR SEQ ID NO: 3329:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3329:	
CTGACGAACC TTGCATCATT TAACTGTCCA TTAGCTTGAT CAATACCTTG ACTCGCAATG	60
TTAAGTCCTT	70
(2) INFORMATION FOR SEQ ID NQ 3330:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 69 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3330:	
TTCCCATTCT GCAAATCCAC CATAAATACT ACGCGACGCA GGAACCCGAA CCAATTCGCG	60
CCAATCTCG	69
(2) INFORMATION FOR SEQ ID NO: 3331:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3331:	
GGACACTAAC ATTAATATGG ACTGGTAATG TTGCTGTTAA TAAACTCATA CCAAATCCTG	60
GGCATCTCTT	70
(2) INFORMATION FOR SEQ ID NO: 3332:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 82 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3332:	
CCTTGGGCAC CTTCAATTTG CATATTACGA CGTTTTGCAG CTTGGTTCAA TTGGCAATAA	60
CTACACCTAG TGCAGTTGGA TC	82
(2) INFORMATION FOR SEQ ID NO: 3333:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3333:	
ATAAAATAAT TAGAACTCTA ACATTGGTTT AACTAATGTT TAGACTTTTT GTGGTTTGTA	60
AAAACAAGTA TATTGA	76
(2) INFORMATION FOR SEQ ID NO: 3334:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3334:	
TGGTAAGTTG AATAAAGTAT TGAAATCGTT GCCAATATCT TTATACCGTT GGTTCCTGGC	60
ATTTATTGGG AGGC	74
(2) INFORMATION FOR SEQ ID NO: 3335:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 74 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3335:	
AGATAGTTAT GCGCAGTTAA AAACGGTGAA ATGTATTTGC AATAATATGC ATATAGGCAC	60
CATACGAGTA AGGG	74
(2) INFORMATION FOR SEQ ID NO: 3336:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3336:	
TTGAATCATT GTTAAAAATG GAATTAAAGT TGCTAGTATC TGTCGGGTTT TGAAATAGGT	60
CATAGGAGAA AACAGG	76
(2) INFORMATION FOR SEQ ID NO: 3337:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3337:	
CCAAAGAGGC GTTATTAAGC TATTGATAAA AGTTATGTTA CTAAAAAATG TATTTAAATA	60
AGTAGTACCT AA	72
(2) INFORMATION FOR SEQ ID NO: 3338:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3338:	
ATAAGTCGTT CTACCGTATA GCCGTCATTA TTAATCACAA ATAXACCGG TTTAATATGC	60
TGTCTGGTCA TAGTT	75
(2) INFORMATION FOR SEQ ID NO: 3339:	

(i) SEQUENCE CHARACTERISTICS:

(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3339:	
TTCATCAAAG TATTCCAATG GGAGAAAAAG CACAATAACA TTATCACTGG ATGCTAAATC	60
TAAAGGAACC TC	72
(2) INFORMATION FOR SEQ ID NO: 3340:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID XD: 3340:	
GTAAAAATAT TTTAATGAAT GTCTTCACTG GAGAACCATT GACAACCTGG TACAAGTGGG	60
ATTATTGGCG TTATTTT	77
(2) INFORMATION FOR SEQ ID NO: 3341:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3341:	
AACCAAGGAT GGATTGCTAT TTTAATCCTT GGTTGCTCTT TATTTTATTT	60
ACCTAGA	67
(2) INFORMATION FOR SEQ ID NO: 3342:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3342:	
CTGGCAAAAG CACGTTTTAC AAGCATCAAT CCATTAATTA ATAATTCCAT TAAATGTAGA	60
TTCACAGGGA TATG	74

(A) LENGTH: 72 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

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(2) INFORMATION FOR SEQ ID NO: 3343: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 415 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3343:	
GTTTGATCAT TAGAGAGATA TAGATATŒC GTAGAAAATA ATATGTCATT TGCGGATATC	60
ATGGTTAAAG AAGAAATGGA ATTAAGCGGT AAATCACGTG ATGAAGTGCG AGCGaAATGA	120
AACAAAATTT AGATGTCATG CGAGACGCAT AATCAAAGGG ACGACAGGTG ATGGGGTTGA	180
AAGTGTACGG TCTACACTGG TCATGATGCT GCTAAACTAC GTGATTATAA TG A ACACAT	240
CATGCTTTGT CTGGGATATG AAATGATTGA CGCACAAGGG TGCCATTGCA ACAAATGAAG	300
TCAATGCTGC CGATGGGTAT TATTTGTGCA CGCCAACAGC TGGTTCCTCG GGTACCATTC	360
CCGGTGGCAC TTTTAAATTA GAAAAAACAC TGGATnGAAC CAGAAGAGCC AATGn	415
(2) INFORMATION FOR SEQ ID NO: 3344:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3344:	
TCCTATACCA CCACCGTCAA CAGCTCCTGC CATCGATCGT ACTTTCAATA AGTCCAATAA	60
TCGCAGTGGT AATTTCTAAT ACTA	8 4
(2) INFORMATION FOR SEQ ID NO: 3345:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 474 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3345:	
CGGGAGGTGT TAAnTCTTCA CAAAATGCCG TACTATTCTT TGATGnAATC CATCAAATTA	60
TCGGTTCAGG TGCCACAGGA AGTGATTCAG GTAGCnAAGG GTTATCTGAT ATTTTGAAAC	120

ACAATATTCT TAAAGATGCT GCATTAACGC GCAGATTTAA TGAAGTGCTT GTTAATGAAC 240

180

CTGCATTAAG TCGTGGTGAG ATTTCTATTA TTGGTGCaAC AACACAAGAT GAATATCGAA

CAAGCGCTAA AGATACTGTT GAAATTTTAA AAGGTATTCG CGAAAAATTCGAAGAACACC	300
ATCAAGTAAA ATTACCAGAT GACGTATTAA AAGCATGTGT TGACTTATCA ATTCAATATA	360
TTCCACAACG ATTATTACCA GATAAAGCAA TCGATGTGTT AGATATTACA GCAGCACATT	420
TATCnGCGCA AAGnCCAGCT GTCGATAAAG TTGAAACTGG AGAACGAATT TCTG	474
(2) INFORMATION FOR SEQ ID NO: 3346:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3346:	
AAAATTAATA ACTCCTTGGT TATTGATATG CCTAAAGAAG AAGGTACAAT ACAACTAACA	60
TTAG	64
(2) INFORMATION FOR SEQ ID NO: 3347:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3347:	
AGGAATAACT TGATATTGAT GATAAAATCG TCAAACGGCA CTAATATTTA AAAAACAAAT	60
GTTTTAAGTT GTTGATTTAA AATATTAAT	89
(2) INFORMATION FOR SEQ ID NO: 3348:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: limear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3348:	
ATAACTTGTA CTGCTTCCCA TTAATCACTG TGTCTCTTCA CCAGGAGCTG GCATTTCTTT	60
AAAGAACAnT TCTGATAAAG GTACAATTTC ACCGGGCATA ACTTCAT	107
(2) INFORMATION FOR SEQ ID NO: 3349:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3349:	
CAACGCATCC TGCACTTTTA CCTATTCCTG AATCACCGG AATTAGTACA CCAACACCGT	60
AAACATCTAC TAAA	74
(2) INFORMATION FOR SEQ ID NO: 3350:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3350:	
AGATGCACCT ACTTCTAACT GTCGCCAACA TCGCCGCAAT CATTTCAAAA CTACGTTCTG	60
TA	62
(2) INFORMATION FOR SEQ ID NO: 3351:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 73 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3351:	
GCTGCAAACA ACAAACTATT TTTGATTAAA TTGTGGATAT GATGGTAACC AACCAAGTCT	60
AGCGGCTAAA ACA	73
(2) INFORMATION FOR SEQ ID NO: 3352:	
 (i) SEQUENCE CHARACTERISTICS: (A) IENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3352:	
ATTGAACGCA AGATTTCGAT ATAGAACATC TAGCGACGTC GATTCGCAAG GTTGAACCAT	60
CTACATTAGG TGAGGAA	77
(2) INFORMATION FOR SEQ ID NO: 3353:	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3353:	
TAATCAACAC GAGGAGATGC TATTTAATGT CATCTGACAC AAACAGTTTA GCACATACA	5 9
(2) INFORMATION FOR SEQ ID NO: 3354:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3354:	
TTATGTAACC GAÇGAATGCT GCGATAGTGC TACGCCATCA CCGCCAGCTA ATCCGATTG	59
(2) INFORMATION FOR SEQ ID NO: 3355:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3355:	
TAACTATACC TTTAGGGTTA CTACCACGCT TAGGTAGGTC ATAACCTTTA ACCACATCT	59
(2) INFORMATION FOR SEQ ID NO: 3356:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3356:	
AATAACGCTA AACCTAAAAT GCTAAATAAT CCGCCGAACA ACATGCCGTT GTTTGTTGA	59
(2) INFORMATION FOR SEQ ID NO: 3357:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 77 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3357: 60 CCAGAACCAC CCACGCCCTT TGAATATGGG AACTCAAAAC GATCTACTGG CTGATGTAAT TACCCCTGTT TTGATTG 77 (2) INFORMATION FOR SEQ ID NO: 3358: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3358: AAGTTAGGTC TAGGGAACAT CGATAAATTA CCAGTAGTAA ATGCAGTTGA ACAACCAGA 59 (2) INFORMATION FOR SEQ ID NO: 3359: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3359: CATGACCTTT AAATTGCATA TCTTCTGCAT CAGGTGCATC GCTTTTAACA ATAACGTCA 59 (2) INFORMATION FOR SEQ ID NO: 3360: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3360: ACGCGACAAC ACCGCCCTCA ACTAAAGTAG AAGCACCGCA ACAAACACA AATGCGACA 59 (2) INFORMATION FOR SEQ ID NO: 3361:

(D) TOPOLOGY: linear

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3361:	
GATTTGATCG AATTGAACGA ACATTTGCTT CTCAAACGAT TGCATCTATT AAAGAAGTAT	60
GTCTAG	66
(2) INFORMATION FOR SEQ ID NO: 3362:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3362:	
GGTTGCACAT CTTTTACTAC AAATTTCGCT GGTAAAGATG TTGCAAAAGT ATGTCCGT	58
(2) INFORMATION FOR SEQ ID NO: 3363:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 3363:	
CCTTGAAACG GCAACATTTT TGGGTCCTTC TCCATCATTT TATTTAAAAG CGCATTAT	58
(2) INFORMATION FOR SEQ ID NO: 3364:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3364:	
TTGAGAATTT AGGAGGTTAA TGCGTTGATT AAAAGTGGCA AAGCACGTGC ACATACGA	58
(2) INFORMATION FOR SEQ ID NO: 3365:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3365:

GTTTTTTTAT TTTGGATAAA AGGAGCAAAC AAATGGATAT TAACTGGAAA TTGAGATT	58
(2) INFORMATION FOR SEQ ID NO: 3366:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3366:	
ATTCATCGGT AATGACATTA TTTTTACTTT GTAATTTCAG TAACAGTTGA TCATCATG	58
(2) INFORMATION FOR SEQ ID NO: 3367:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3367:	
TAAATTAACA GCCGGATGAA ATGAAAGGTG CTACATGCAC AATCAGTAAT ATCGGTTC	58
(2) INFORMATION FOR SEQ ID NO: 3368:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 bæe pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3368:	
TACCTACTGG TGAGATTGGC GAACTTGCAA TTAAGGCTAA AAATGTCACG CCAGGATA	58
(2) INFORMATION FOR SEQ ID NO: 3369:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3369:	
TTAAACGGAG AAGGCTTTAC TTTACATGTT GAGGAAGGTC AAGAAGTTAA ACAAGGTG	58
(2) INFORMATION FOR SEQ ID NO: 3370:	
(i) SEQUENCE CHARACTERISTICS:	

(D) TOROLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3370:	
CTGCTAAACT ACGTGATTAT AATGAAACAC ATCATGTCTT TGTCTGGTAT ATGTAAATGA	60
TTGACGGC	68
(2) INFORMATION FOR SEQ ID NO: 3371:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3371:	
ATTACCAACA GCGAAAATAT TGAAAAGCT TAAAAAAGCT GGTGCAsmCm TACTTGGATT	60
GAGAATTTAG GAGGTTAATG CGTTGATTAA AAGTGGCAAA GCACGTGCAC ATACGAATAT	120
TGCACTTATA AAATATTGGG GTAAAAAAGA TGAAGCACTA ATCATTCCAA TGAATAATAG	180
CATATCTGTT ACATTAGAAA AATTTTACAC TGAAACGAAA kCACTTTTAA CGA C AGTTA	240
ACACAGGATC AATTTTGGTT GAATGGTGAA AAGGTTAGTG GCAAAGAATT AGAGAAAATT	300
TCAAAATATA TGGATATTGT CAGAAATAGA GCTGGCATCG ATTGGTATGC AGAAATTGAA	360
ACGACAATTT TGTACCAACA GCAGCAGGGT TGGTCATCG	399
(2) INFORMATION FOR SEQ ID NO: 3372:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3372:	
ATTTCAACAA CTTTAAAGCA CGTATAATGA TGATTTTCAG ACTTGTACAA AGGAGAAA	58
(2) INFORMATION FOR SEQ ID NO: 3373:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3373:	
AAACCGAGCA GCGCAGTAAA CCTGCAGTAC CTTTATCGCT TCTAGATAAT CCGATTG	57
(2) INFORMATION FOR SEQ ID NO: 3374:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3374:	
AGTACGAATA TTACCTTTAT TTAATGGGTG AGCTAAGTTA CTTTCATTT CTTCGTG	57
(2) INFORMATION FOR SEQ ID NO: 3375:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3375:	
GGTGAAGTAT AACTTTGTAA TGGCAGCGCA CTTAATGACT GCCAATAATT GTGACCAACA	60
ACTAACAGAC	70
(2) INFORMATION FOR SEQ ID NO: 3376:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3376:	
TTCCAAACTT CATTAGGTGA TAGCTTTAAT TTCAAGGCTG GCAATCGCCA TAACAAG	57
(2) INFORMATION FOR SEQ ID NO: 3377:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

CTCGCATCCA	70
(2) INFORMATION FOR SEQ ID NO: 3378:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3378:	
ATGAATCATT AAGCCTTTCG GTGCATATGC TGCAAGACTT TGACCAGCAT GACCAT	56
(2) INFORMATION FOR SEQ ID NO: 3379:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3379:	
CCAACGACTG CGCCAATATT AATTGTTGCG CCCATCATAA CGACAGCACCATCTTC	56
(2) INFORMATION FOR SEQ ID NO: 3380:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3380:	
ACAAAAGCAT CAAGCTGTTG AAACAATCAA TGATAGCATT CGAGATTATT TAGTTAG	57
(2) INFORMATION FOR SEQ ID NO: 3381:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3381:	
CATATAGTTT TGCTCACTAC CATAACCTGC ATCAGCTACA AATAACCGAA GTATTT	56

TCCTTCAAAG TCAATGGATT TGATCCTCAG AGG&TCAGT GTATCCTCCA AGTGACCTGG

60

(2) INFORMATION FOR SEQ ID NO: 3382:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3382:	
GAACACAG GCAACCCAAA GCAGTGACGG CGAAAnTTGG ATTGATCTTG CAGCATTGAA	60
GAAGATCGCG ATGACTATAC AATCAATATC GAGTAGAAGA CCGAT	105
(2) INFORMATION FOR SEQ ID NO: 3383:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 106 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3383:	
nGTATGTGAA AACTATTTGG CGATATTTTA GTGATGAGCC TCAGTGATCC TGGTTCCTGG	60
TTATCACCTC TGCTAGTTTA GTACCGATGG TCCAAGATTG ATGAGC	106
(2) INFORMATION FOR SEQ ID NO: 3384:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3384:	
TTCTTCGTCA AGATCAATCT CTTCAAGTAC AATCTTTAAT ACCTTCTGCA CCCATTT	57
(2) INFORMATION FOR SEQ ID NO: 3385:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3385:	
CGGGCATCTT AAAGCCGATG TTTATCCTGT AATCCTCCAA AAGGAAACAT GTACCTCAAT	60

65

TAGAG

(2) INFORMATION FOR SEQ ID NO: 3386:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3386:	
CATTTTAAT TATTTCTATT TGCTTTTAA CCACTTCTCT GACTGCTTCC GAATCATTTT	60
TCTTAACTGC A	71
(2) INFORMATION FOR SEQ ID NO: 3387:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3387:	
TTAGAAAATG ATAAACGTAA AGCAGTAAGT GCTGAAGAAT ATAAAAAAGC TGACG	55
(2) INFORMATION FOR SEQ ID NO: 3388:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3388:	
TCTTCGACAA CTTTAATAAT ATTAGCCAAC GCAGTGTCCCCGCCAACTTT TGTTGC	56
(2) INFORMATION FOR SEQ ID NO: 3389:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3389:	
ATTTATTAAC GATTAATGAC GCTGGCATGC CAATTCCAGA TGATCATCGT CGTATC	56
(2) INFORMATION FOR SEQ ID NO: 3390:	

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3390:	
AAATGCTATG TACCCACTTT AGATGAAATT TTAGTAACGT TATGGCCCGA AATGCCAACT	60
ATTATATTGA	70
(2) INFORMATION FOR SEQ ID NO: 3391:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3391:	
CAAACGCAAT AGCTGGTGAC TTAACTGCGG GCACTTGGCA TGTGGATGGC AATACTTCG	59
(2) INFORMATION FOR SEQ ID NO: 3392:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3392:	
GCATCTACTG GGAAACGATT ACAAATTGGT GATTTATTAC AAAAGCCAAC TGTAT	55
(2) INFORMATION FOR SEQ ID NO: 3393:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3393:	
TTTATAAATA TCCCAGTCTG AACGCGATTC CCATAACGGA TCAATGGCAG GATTG	55
(2) INFORMATION FOR SEQ ID NO: 3394:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid	

(A) LENGTH: 70 base pairs

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 394:	
TGCTTACGCT CAGTGACATA ATCTAATGTG GCACGTAAAG CGCCACCATA CCACC	55
(2) INFORMATION FOR SEQ ID NO: 3395:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3395:	
AGTCACCATT TGTTGGTACA GGTTATGGAA CACGTTGCAG CACGTGATTC TGGTGCGG	58
(2) INFORMATION FOR SEQ ID NO: 3396:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3396:	
CAAATGCATT TAAAACCAAT ATTGAGTTAC ATGAAAGCAC ATACGATGCA AACGT	5 5
(2) INFORMATION FOR SEQ ID NO: 3397:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3397:	
TGTTGATGAG TCGTGTTTTA TCTCAAGATG TGTTACTCAA AAAGTTATAG AAGA	54
(2) INFORMATION FOR SEQ ID NO: 3398:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3398:	
CTTCGTCAAG ATCAATCTCT TCAAGTAAAT CTTTAATACC TTCTGCACCC ATTT	54
(2) INFORMATION FOR SEQ ID NO: 3399:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3399:	
AATGAAAAGC TAGCTGTAGT TGCAAGAAAA ACTGGCTTAG CGATGGCAGT TGGAT	55
(2) INFORMATION FOR SEQ ID NO: 3400:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3400:	
CGGTTGCCCT ATAAAAGTAT TGTTTTTGTA TAATGCTAAA TCATAAGCAC CAAA	54
(2) INFORMATION FOR SEQ ID NO: 3401:	J4
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3401:	
TAAAAATCGC GCACTTAAAC CGCTTATGAC AATCATTATT ACCGCAATAT GCTTG	55
(2) INFORMATION FOR SEQ ID NO: 3402:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3402:	
GGCACCTCCT TGGATTATTT TTCTTCTACT GTTACTAAGT GCTTAACTTT GTTG	54
(2) INFORMATION FOR SEQ ID NO: 3403:	

(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3403:	
GATAAGTCTA ACAAGTGGCA CCCATAATCG ATTAAACTAC CGCCACCTTG CAACGTTT	58
(2) INFORMATION FOR SEQ ID NO: 3404:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3404:	
TCGTTTTCGT CCCCAAATTC TGCCAACTTA TTCATGAACT TATCTAGCGC TATTGTTCTT	60
TGTCT	65
(2) INFORMATION FOR SEQ ID NO: 3405:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3405:	
AAATTTCAGC ACCAATTGTT ATTGGACGAC ACCATTTAGA TGCTGGTCA GTTGC	55
(2) INFORMATION FOR SEQ ID NO: 3406:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE ESCRIPTION: SEQ ID NO: 3406:	
TCGATTTCAG CGGAACACAT GTAACGTTAG CACAAGCCAT GAACCAATTA GGTGGC	56
(2) INFORMATION FOR SEQ ID NO: 3407:	
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 74 base pairs

(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3407:	
AATTGCTAAT GGTCAAGTAT GGACGTGATC ATTGTTGGTA CTACTTATTG CTGAAACTGT	60
TAAAGATTAG AAGG	74
(2) INFORMATION FOR SEQ ID NO: 3408:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 3408:	
TGATTTCACA CTTGATAACG GATACTTCGA AGAGATACAT CAGCAGCGTT CAGCTCAGAT	60
AGTGCTCA	68
(2) INFORMATION FOR SEQ ID NO: 3409:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3409:	
TATGATTAGA AAAAGGGGAA TTTTTATGGA GTATAAGAGT TACTATGATT CGCC	54
(2) INFORMATION FOR SEQ ID NO: 3410:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3410:	
TATCTTTCAT CATTGAAGAA GATCGCGATG ACTATACAAT CAATATCGAG TATA	54
(2) INFORMATION FOR SEQ ID NO: 3411:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3411:	
TTGAAGTGCA CGAATCGAAT TATTGTAAGC AGTAATACTT GCCGGCTTCT TAC	53
(2) INFORMATION FOR SEQ ID NO: 3412:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pars (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3412:	
TAGCCGATGG AACCCCATAA CGGTTGCCCT ATAAAAGTAT TGTTTTTGTA TAGTGCTAAA	60
TCA	63
(2) INFORMATION FOR SEQ ID NO: 3413:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3413:	
ACTACCATTG CTTGTTCCGG TTTCACAACT GGTTCAGTAT CATTTACAAC TGC	53
(2) INFORMATION FOR SEQ ID NO: 3414:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(vi) SEQUENCE DESCRIPTION, SEC. ID NO. 2414.	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3414: ATGCTGTTGT AAACGGTAAT ACAACATACC TGCCCAACCC GGTAACGCCA AAAAATGTCC	60
TT	62
	02
(2) INFORMATION FOR SEQ ID NO: 3415: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3415:	
ACTTAGATCA ATCACATGAT GCCTCACGGA ATCCATTATT TGAAGGTCAT GTTAG	5.5
(2) INFORMATION FOR SEQ ID NO: 3416:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3416:	
TTAGTTCCAG CAATACCTGC TACAGTTGCT GCAGATGCTT CTTTCACCCA TGG	53
(2) INFORMATION FOR SEQ ID NO: 3417:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3417:	
TGATTTAGGT GCAAAAATTG TAGGTATCGC TGAGGCTTAC GGTGCATTACACGATCCAA	59
(2) INFORMATION FOR SEQ ID NO: 3418:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3418:	
CGTGGTCACC ATCACCAATT GCTCGATCTA ATTCAGTAAT TCAGATTCAT GTT	53
(2) INFORMATION FOR SEQ ID NO: 3419:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3419:

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

TGGACCTACT GCAATAACTG AACGTCCTGA ATAGTCAACA CGTTTACCAG TAAGT	55
(2) INFORMATION FOR SEQ ID NO: 3420:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3420:	
TGTCTCCGGT ACCGTTTGCA CCAGGAATAA AGATGAGCAC GGGTCCTTGT CCG	53
(2) INFORMATION FOR SEQ ID NO: 3421:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ D NO: 3421:	
AAATTAAGAA AATTCATTGC CAGATAATTT AGATAAATAA TTAAAACTTA GACCATTCAC	60
CCCAATCCCT GA	72
(2) INFORMATION FOR SEQ ID NO: 3422:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3422:	
CATATGTTAA ATGGACTCGC TAGATTTAAG TCGCAATAGT AGCGGCCGTT TCTT	54
(2) INFORMATION FOR SEQ ID NO: 3423:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3423:	
CACGTTTCAA ACCTAAAAGA TGCTAAAAAT TTCTCTTAAT TCTTGTGCAA TA	52

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3424:	
ATCGCCTAAC CAAGATGCAC CATCGGTGAT TTTATCGCCT GCCGCTTCAA CCAT	54
(2) INFORMATION FOR SEQ ID NO: 3425:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3425:	
AATAGAAAAT GTACGTAGCG GTATGATGAG GATTTCGCAG ACTAGTTTAG GGTCAAGTG	59
(2) INFORMATION FOR SEQID NO: 3426:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3426:	
CCAACGCCAG ATCCAGAACC AAGTCCAGAC CCAGAACCGG AACCAAGCCC AG	52
(2) INFORMATION FOR SEQ ID NO: 3427:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3427:	
CCATATTAAT GGTTATGTTT ATGTGAATGC TTGCTTGCTG GACTTGTCTT TT	52
	32
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid	

(2) INFORMATION FOR SEQ ID NO: 3424:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3428:	
TAAAACAGAG ATTGATACTG CAGAAGATAA CTGTATCTCT CCATCTACTG TA	52
(2) INFORMATION FOR SEQ ID NO: 3429:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3429:	
TGAAAATCCA CAAGTCGCAC GTACAGTGT TGAAAAAGGT ATTATGGCGG CA	52
(2) INFORMATION FOR SEQ ID NO: 3430:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 76 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3430:	
ATAATTCTTC CAAATATATG AAAATGGATT TGTTCTTTTT TTATAAAAAT CTTATGCTTT	60
TTAACTAATT GTAAGA	76
(2) INFORMATION FOR SEQ ID NO: 3431:	
 (i) SEQUENŒ CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3431:	
CTGCGGGGGA TAACTGTATC TCTCCATCTA CTGGTAAGTC GTATÆGAAC TAAAGCGGCT	6Õ
(2) INFORMATION FOR SEQ ID NO: 3432:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3432:	
GGCTTCAGGC TCATTGATAG GTAAAAGTTG CAAAGCCTGC AAAGCGATTG GG	52
(2) INFORMATION FOR SEQ ID NO: 3433:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3433:	
TCGCACGATA CGCCTCCGAA TGAAGAAGGT TTATTGTGCG ATTCTTTTAT TGTTAAATTT	60
TAAATTTTT	69
(2) INFORMATION FOR SEQ ID NO: 3434:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQID NO: 3434:	
GATCGCTATC CATTAGCTAA ATTTAAACGT TCAAACTCAG GTACATGTTA C	51
(2) INFORMATION FOR SEQ ID NO: 3435:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3435:	
TATAGCTACT GCTGCAGCTG CGGCCATTGC AGATGCTGAA CCAACTTCAG C	51
(2) INFORMATION FOR SEQ ID NO: 3436:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 70 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3436:

ATTAAAGCCA ACATTAATTT ATCCACTATT AACAATAACG GCTACAGGCT TATTAATGAT	60
TTATACCTTT	70
(2) INFORMATION FOR SEQ ID NO: 3437:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3437:	
TTTGTTTGTT GATTCTTCTC CACCTGTTTC AGGTAGTTCA GATTTCTTAG A	51
(2) INFORMATION FOR SEQ ID NO: 3438:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3438:	
GTGAATTCCG TAATTACATT TTAGGCTTGA TTTTCTATCG CTTCTTATCT G	51
(2) INFORMATION FOR SEQ ID NO: 3439:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3439:	
TTAAGACAGG TTCCTTATGG GACTCTAACA ACGTATGGTG CTATTGCCAA A	51
(2) INFORMATION FOR SEQ ID NO: 3440:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3440:	
CACTAGAAGA AACGGATTCA TCAGCTATTG GTATCGATTA CCATACTGCT GTGGA	55

(2) INFORMATION FOR SEQ ID NO: 3441:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3441:	
CTTCTGGCAA TAGACCGCGA GTTACTGGGG GCAAAACCAG TGTGTAAAAC CGGAACTACT	60
ATGAGGGCA TGAAAGT	77
(2) INFORMATION FOR SEQ ID NO: 3442:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3442:	
GTTCGGTTGT GACAGTCAGT GGACGCGTTA CCAAATGGGC GGGAATTAAA GCAAA	55
(2) INFORMATION FOR SEQ ID NO: 3443:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3443:	
ATGAACTTTG GGATAAAGGT GATGCCCAAA CTTTCCGTAA CTCATGATGA T	51
(2) INFORMATION FOR SEQ ID NO: 3444:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3444:	
CAACGCAGCA AAGCGGAGTG GCCCTTTACC TTCACAGAAT AATGTCTAA T	51
(2) INFORMATION FOR SEQ ID NO: 3445:	

(i) SEQUENCE CHARACTERISTICS:

(D) TOPOLOGY: linear	
(xi) SEQUENŒ DESCRIPTION: SEQ ID NO: 3445:	
ACCGAGCAGC GCACTAAACC TGCAGTACCT TTATCGCTTC TAGATAATCC	50
(2) INFORMATION FOR SEQ ID NO: 3446:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3446:	
CCAATGCAAC GATCCAGTTA TTGTGTTGGC GCAATTGATT AATAGTATTC	50
(2) INFORMATION FOR SEQ ID NO: 3447:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3447:	
GCGCATCATA TCCCATTGCA CCGATAAGAT CCTTCTTACC TTCTACAAGT	50
(2) INFORMATION FOR SEQ ID NO: 3448:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 60 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION SEQ ID NO: 3448:	
GTTCTTACTT CTTTATCGTG GCTCCAACGT GCTCTGTACA TTTTTTCCCA TCTCTCTACT	60
(2) INFORMATION FOR SEQ ID NO: 3449:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3449:	
CAACACCACC GACACCAGAA GTACCAAGCG AGCCGGAAAC ACCAACACCG	50
(2) INFORMATION FOR SEQ ID NO: 3450:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3450:	
AAAGGCCGTA TTGAATGAAT CACACTAGCA GCGGTTGCTC AGGACATTTA AATCACTTAT	60
TTATCACGGT ATATGAGGGG ATTTGAGG	88
(2) INFORMATION FOR SEQ ID NO: 3451:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3451:	
TGCAAAACGT TATGAAGTAC AAGTTGATGG AAGCAACAAA GTAAGTGCGn	50
(2) INFORMATION FOR SEQ ID NO: 3452:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3452:	
CAGTTAAGTC ACCAGCTATT GCGTTTGGTG ATCTTAAGCA GGCGTGGATT ATCAAGTTTG	60
GGTA	64
(2) INFORMATION FOR SEQ ID NO: 3453:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 131 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3453:	
TCGTAAACAA TATACTATCT CAACATTTAT TCATCCAATG GAGATAACGT ATTGCGCGGT	60
TTAACAGGTA ATTTAAACCA AATACGGTAG TAATnATTAA TAGATAGCAA ATCAAGTATA	120
AAGAATAAGT A	131
(2) INFORMATION FOR SEQ ID NO: 3454:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3454:	
TTAAAAATGC AGTTATGGCC TCTAAAATCG TATTAAGCAT ATTAGCGCCC	50
(2) INFORMATION FOR SEQ ID NO: 3455:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3455:	
TGCTACATGG CGTTACGGTC AAGATCGTCA ACGATTGATG GGTACAATTG A	51
(2) INFORMATION FOR SEQ ID NO: 3456:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3456:	
ACAAACTGCC AACGATTGGT CGTGTGAATC ATCCAGTGGA AGAAGCGAn	50
(2) INFORMATION FOR SEQ ID NO: 3457:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3457:	
AATCACGTGA GAAGGATACA GCTATTAGTA TCGGTATCAT CGCATTGATT	50
(2) INFORMATION FOR SEQ ID NO: 3458:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3458:	
GCAATGGCAC CTTTGACTGG GTCAATCATT TCATATCCAG ACAAAGCATG G	51
(2) INFORMATION FOR SEQ ID NO: 3459:	
 (i) SEQUENCE CHARACTERISTIS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3459:	
GGGCCAACAA ATCGGAAACT GCCAATTGGA CGGTTGCCGT CATCAAACCC	50
(2) INFORMATION FOR SEQ ID NO: 3460:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: \$EQ ID NO: 3460:	
TGCTTCCGCT AGAGGATCCG GTATTGCTAG TCAATTACTA CACCATTTAA ATTGTGGAAG	60
CAAAAGCT	68
(2) INFORMATION FOR SEQ ID NO: 3461:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3461:	

51

TGGTCTTCGC AATCCACGGA TATACCTTAG TACCAGGTAA TTGACCACCT T

(2)	INFORMATION FOR SEQ ID NO: 3462:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3462:	
AAG	CTATTAA TGTAATTTAT CAATTGATTG TGCAACGGAC ATCATCTACA AGACCG	56
(2)	INFORMATION FOR SEQ ID NO: 3463:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3463:	
ATA	CCAAATG TGAGAAACTG GAGCAGCAAn TTCAATGTGA CCCATTCTTT	50
(2)	INFORMATION FOR SEQ ID NO: 3464:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 bæe pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3464:	
TCT	TTACGGC GTGGTTCTAA TCGCATCTTT TTCAATCTAA GTGCGTTTnT	50
(2)	INFORMATION FOR SEQ ID NO: 3465:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3465:	
AAA	GAAGATT GGAACGTGTA TTGACGACTG CACCCAGGTA TGGGTGTTCG CCCGACA	57
(2)	INFORMATION FOR SEQ ID NO: 3466:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 63 base pairs	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3466:	
ACATCCGAAA GATGACTTGT TTAAAAAAGC AGAGCATGAT TTGCTTACTA TGATTACACG	60
CGG	63
	03
(2) INFORMATION FOR SEQ ID NO: 3467:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3467:	
PACCGATGAT TTCCGAGACA TAGACCGGCC TGTCTGGGGG TCAACTGGAA CTTGGTC	57
(2) INFORMATION FOR SEQ ID NO: 3468:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3468:	
IGTTCCTAAT ATTTATGTTG TAAAAATGTA CAATCTAATT AAAGCAATAG TCTTGGGCA	59
(2) INFORMATION FOR SEQ ID NO: 3469:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nwleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3469:	
CCATGATCG TTCAACATTT AAATACACAA CTTAATAAGT ATCGTGTACA AGTTATG	57
(2) INFORMATION FOR SEQ ID NO: 3470:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3470:	
CCCTGTTCAG GCTATCCTCT AAAGTGACGA TATAGAATAG GATTAATAT CGCGATAGT	59
(2) INFORMATION FOR SEQ ID NO: 3471:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3471:	
TACGCCATCA nCGCCAGCTA ATCCGATTGC GACACCTAAT GCGAAATCAT	50
(2) INFORMATION FOR SEQ ID NO: 3472:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3472:	
AACGTCATCA AATGGAAGTA CGTGACGTTC ACTACTCTCA CTATGGCCGT ATGT	54
(2) INFORMATION FOR SEQ ID NO: 3473:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3473:	
TAATAGGCAT TCCCATTAGG TGCGTCGACA ACTGCAACGC AAGCATTTGA AAAGA	56
(2) INFORMATION FOR SEQ ID NO: 3474:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3474:

TTTTAAGAAT GTCGCGTTAT CTGCGCCCAT TGGATTGACA TACTTCATAC GTATA	55
(2) INFORMATION FOR SEQ ID NO: 3475:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3475:	
GCCTTTAGGT AAAATGGGCA GAAATGCTAA TCATTTTGGC GGCGAAATGA AAAA	54
(2) INFORMATION FOR SEQ ID NO: 3476:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3476:	
AAAnCATTCG CAATCGACCA TAATTTTTTA TGTAATTCAG CTTGTTGCTG	50
(2) INFORMATION FOR SEQ ID NO: 3477:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID 10: 3477:	
GGAnGACCAT TAATCGATAT CGGTACACAC GCTTTAGATT TAACGTTATG	50
(2) INFORMATION FOR SEQ ID NO: 3478:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3478:	
TGCCTCCTTA CGCCATGATG CTTATTCAAA GTAAATTGCT TTGCCGGACT TTGCAGACTG	60
(2) INFORMATION FOR SEQ ID NO: 3479:	
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 77 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3479:	
GGTCTTTCAG CTGCTAACGA GTTCCTGTTA CTGTTCATGT CTATCACTTT GCGTTCCCTC	60
ACACTACTTA TACGACA	77
(2) INFORMATION FOR SEQ ID NO: 3480:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3480:	
CAAGTATCAT ATGGACGGCT CGCCCAACAC AAAACAAGnC CAAGCAAAAC	50
(2) INFORMATION FOR SEQ ID NO: 3481:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3481:	
ATTAAACAAC ATAGCTCGGC TAATCCTTTA AAGCTTTTGA GTTTTTCTGT TGTAGAACAA	60
GA	62
(2) INFORMATION FOR SEQ ID NO: 3482:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3482:	
TGTGGCTAGC TGTTTCTTTT TTAGGTGCTG TGTAGGAGAT GAACTGATCG T	51
(2) INFORMATION FOR SEQ ID NO: 3483:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3483:	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 5463:	
GCAGTTTATA AGTAGAGAGA CAGCTGATCA TGAGATAAAA ATGGGTAAAT ATTT	54
(2) INFORMATION FOR SEQ ID NO: 3484:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3484:	
TTATCTATCA CAGTACGAAT CCCCCAGAGT ACCGATGTG ACAGCAACTT CTGCG	55
(2) INFORMATION FOR SEQ ID NO: 3485:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3485:	
ATCTCTGGTT CGATTCCCGT CGAGACCGGC ATCATTACAT GTTTATTATG GG	52
(2) INFORMATION FOR SEQ ID NO: 3486:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic æid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3486:	
TGTGTCACGA TAATAGGCGT AATATCACTC TTTGGCATGA TTGCCGGATG	50
(2) INFORMATION FOR SEQ ID NO: 3487:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3487:	
TATTTTTGAT CACACTCAAC GCACAAACGA ATGGCCTTTA CCTTCACAA ATAATGGTCT	60
AATGTAA	6
(2) INFORMATION FOR SEQ ID NO: 3488:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3488:	
TAGGTGGTCA ATTACCTGGT ACTAGGTATA TCCGTGGATT GCGAGGACAA	5(
(2) INFORMATION FOR SEQ ID NO: 3489:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3489:	
CAATTGTACT TCATAACGTT TTGCATTTCG CCACCTTCAC CACTATATTT TCCCATGGTC	60
(2) INFORMATION FOR SEQ ID NO: 3490:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ IDNO: 3490:	
CTAAACTGAT TGTTTTACGT AACGTTTCAT CGGCTTCTTT CGCTTCTATC	5 (
(2) INFORMATION FOR SEQ ID NO: 3491:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3491:

TCGATTTACC TTTCATCATT GAAGAAGATC GCCATGACTA TACAATCAAT AT	52
(2) INFORMATION FOR SEQ ID NO: 3492:	
(i) SEQUENCE CHARACTERISTICS:(A) IENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3492:	
AACCTTTTCA CAAATATCAT ATAACTCTTC TAATGGGATA ATCTCTTCAT GT	52
(2) INFORMATION FOR SEQ ID NO: 3493:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3493:	
GGTTTTAAAC CGTCACGAAC ATCTGGCAAT GCACGAGCAA CGTACATACG TATCTAAAGT	60
TACGCTT	67
(2) INFORMATION FOR SEQ ID NO: 3494:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3494:	
TACGTTATGT TATGTAAATA ACAGTTAATT ATACCGGTGG TCTGGGTCGA	50
(2) INFORMATION FOR SEQ ID NO: 3495:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3495:	
CGCTTGTTGT TGTACTTTG CAGTTCGCGT TGTGGATTGT GCCAGCGCTT TTAAACCGTA	60
(2) INFORMATION FOR SEO ID NO: 3496:	

(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3496:	
GGCACCGGCT TCTCTATTGC TTCTTTAGCA TATCTGCAGC TCTCTCAAGG GACATG	56
(2) INFORMATION FOR SEQ ID NO: 3497:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3497:	
CACCTTTAGG ATACGCGTCT AACCACTGTG TCGCGTCTCT ATATATCGCT AAACACGTA	59
(2) INFORMATION FOR SEQ ID NO: 3498:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3498:	
AAGTAATATC TGAATGCGTA TATTGTCTAA TTTCAAATTC TACAGACATC GACGT	55
(2) INFORMATION FOR SEQ ID NO: 3499:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3499:	
AnTGTACACG TCCATCTTCA CATGACAACA ACGATATTTT GACCATCACA	50
(2) INFORMATION FOR SEQ ID NO: 3500:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid	

(i) SEQUENCE CHARACTERISTICS:

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3500: GTGCTAATGC GGCACCTTAC TTGTTTCAGC ACCAGCCATT GTTGCAATTG GCATTA 56 (2) INFORMATION FOR SEQ ID NO: 3501: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi') SEQUENCE DESCRIPTION: SEQ ID NO: 3501: TGTGTGCCTT TAAGTTGTTG ATGACACGCA TTCACGACAA CAACATGAC AC 52 (2) INFORMATION FOR SEQ ID NO: 3502: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEOUENCE DESCRIPTION: SEO ID NO: 3502: CTGGCTTCAA TGGCAACTTC TGTACCTGGT ACCAATGGGC GATGACCGAT 50 (2) INFORMATION FOR SEQ ID NO: 3503: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3503: TGTCCGACTT GGCGGnATCG TAATTTAGCG CnTGTAATTC TAAAGGGACC 50 (2) INFORMATION FOR SEQ ID NO: 3504:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 64 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3504:

AACCTTCATA TTGCTTCTAA TAAGAAACCG AGCAGCGCAC CAAACCTGGC AGTACTTTA	60
TCGC	64
(2) INFORMATION FOR SEQ ID NO: 3505:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3505:	
TATTGATGTT GAAAACTGTT ATGTCCTTTC GATGGGCCAA CACnAAnATA	50
(2) INFORMATION FOR SEQ ID NO: 3506:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3506:	
GAATATGGTA TCAATGGTAT GCACTAAGGC TTTATGAAAT TCATTTAAAA T	51
(2) INFORMATION FOR SEQ ID NO: 3507:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 350:	
CGGTTTTAAT CGGTAAATTA AATATGGATG AGTTTGCAAT GGTGTTCACA GAACATCTAT	60
TTAA	64
(2) INFORMATION FOR SEQ ID NO: 3508:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 bæse pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3508:

CAAGGCCTTG TTTTTAAAGC AGCTACAGTT GGCAATATGT CCACTCATGT	50
(2) INFORMATION FOR SEQ ID NO: 3509:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3509:	
CAGATGCAAA TTGACATGGT CATCAACATC nGTnCATTAA AAGATGGACG	50
(2) INFORMATION FOR SEQ ID NO: 3510:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3510:	
ACAAGAGGGT CACCCAGCTC GGTCGATTCC CACCGCCACA TCATGATATT TATTCATAGA	60
GTTTACGCAC TGTACATGAT TGAATGCGAT AAAG	94
(2) INFORMATION FOR SEQ ID NO: 3511:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3511:	
ACTCAACAAT GGATATTCTT ACACTGAAAA ATGGGTAATG GTGCAAACAT AGTA	54
(2) INFORMATION FOR SEQ ID NO: 3512:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3512:	
CCGGATGCAC ATTTGATGAC TGAAGTCCGC GATAAAGGGA CAAnAGTCAn	50
(2) INFORMATION FOR SEQ ID NO: 3513:	

(B) TYPE: nwleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3513:	
GCATTAAATT GAAACAATCG GATTTACAAT TTTCTCTTAA TGCTGTCGTC TACACAGC	58
(2) INFORMATION FOR SEQ ID NO: 3514:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3514:	
GTGTTCGTGT TCATGCAAGG TGAATGCGAG TGATCTGTTG GATGGGCTT TATGCATGGC	60
AATCTG	66
(2) INFORMATION FOR SEQ ID NO: 3515:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3515:	
ATGCCACTGA TAATGCnnCT GAACTTATTG ATGACTTCTC ATTAGACTAT	50
(2) INFORMATION FOR SEQ ID NO: 3516:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3516:	
CGGCGACAAA GAGTAAACAC AGCGGAGGGA CAAAGCCCGC GACTAGCAAC	50
(2) INFORMATION FOR SEQ ID NO: 3517:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs	

(i) SEQUÊNCE CHARACTERISTICS:
(A) LENGTH: 58 base pairs

(') CECUENCE DESCRIPTION OF TO MA OF T	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3517:	
ATGCCTATGT AGCACCGAGT ACCGATACCG AACACTTAGC TACGCCAGTT C	51
(2) INFORMATION FOR SEQ ID NO: 3518:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANGEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3518:	
GAGCATnAAG GTGATTTnGA TCGCTATCCG TTAGCTAAAT TTAAACGTTC	5 (
(2) INFORMATION FOR SEQ ID NO: 3519:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519:	
GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT	60
ATCG	64
(2) INFORMATION FOR SEQ ID NO: 3520:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520:	
TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA	60
ATCGGTTCCG ATC	73
(2) INFORMATION FOR SEQ ID NO: 3521:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 75 base pairs(B) TYPE: nucleic acid	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3521:	
TCAAATTGGC AATTGGTACG AATGTCGACT GTACTAACAT CATTAGCTCA TGATTGCCAG	60
GTGATTTCAT GGATG	75
(2) INFORMATION FOR SEQ ID NO: 3522:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3522:	
TTCCAATGGG CTTCTGACTT TGGCGGTTTT AGTGCTTGGG TTGCCGGCGG TTTTGGA	5
(2) INFORMATION FOR SEQ ID NO: 3523:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523:	
TGGTGGAGGT TTTGTTTTT CCGTGTCGGT TTTGTTTTC GTCTTGGTTT CTTTTGTTTT	60
TGTGTTCTCT TT	72
(2) INFORMATION FOR SEQ ID NO: 3524:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524:	
ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C	51
(2) INFORMATION FOR SEQ ID NO: 3525:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3525:	
TAGACCGTCG TGGATAGTTT TGGGTACGGT AACCAATTTA TTTTGAAGAGACCATCCTC	59
(2) INFORMATION FOR SEQ ID NO: 3526:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3526:	
TAATAACGTT GCCCTCCCAT GTATATCCTA CCAACATGAC ATCTTGTACA	50
(2) INFORMATION FOR SEQ ID NO: 3527:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3527:	
TTCCCAACGA GCAGTCGCAT GCGGTACTGC CACGGCATTT TGATGCAGGC CT	5 2
(2) INFORMATION FOR SEQ ID NO: 3528:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3528:	
AAAGAAAnga Ingnnngnnn gnAnAAAnnn nnCCAInnnn nTAAAAAAAA	50
(2) INFORMATION FOR SEQ ID NO: 3529:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid	

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQID NO: 3529:

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

CATTAGCCTC ATCCCCTTCG TTTAGACTCG CTATAGATGC ACTAAATGGC GATATATTTT	60
TC	62
(2) INFORMATION FOR SEQ ID NO: 3530:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3530:	
CACTACCACA AAAATTATAG GTGTTGACCT TCAGGnGCAA GTAGTATGAT	50
(2) INFORMATION FOR SEQ ID NO: 3531:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3531:	
GAATGCAAAA TCCATTTGTA AGGANATCGA ATGGTTTAGT ANCTCGTGCA	50
(2) INFORMATION FOR SEQ ID NO: 3532:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3532:	
GGTAGAnCnC TGTTTAGTAC TAGGGGCCCC TCTCGGGTTA CCAATTCAGA	50
(2) INFORMATION FOR SEQ ID NO: 3533:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3533:	
CTATTATATT TTACAGCATC ATTGATAGTT CGCTCTCCCC TGAAGTTTTG	50

(2) INFORMATION FOR SEQ ID NO: 3534: (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3534:

CGTCAACGAT GTAAAGTAAA GCCTTGTCCA GTTTAATTTA CGAGTGGCGT AA

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- (2) INFORMATION FOR SEQ ID NO: 3535:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3535:

TTAATCCAGA AGTACCGGTG GATTTAGTTA TTGACCACTC AGTTCAAGTG GATAGCTATG	60
CAAATCCAGA AGCTCTTGAA CGTAATATGA AATTAGAATT TGAACGTAAC TATGAACGTT	120
ATCAGTTTTT AAATTGGGCA ACGAAAGCAT TTGATATTA CAATGCAGTT CCTCCTGCAA	180
CTGGAATAGT TCACCAAGTT AACTTAGAAT ATTTAGCAAG TGTTGTACAT GTTCGTGATG	240
TAGATGGTGA AAAAACTGCA TTTCCAGATA CATTAGTTGG TACTGATTCA CATACAACAA	300
TGATAAATGG TATTGGCGTA CTAGGATGGG GTGTTGGTGG TATTGAAGCT GAAGCTGGAA	360
TGCTTGGACA- ACCTTCTTAT TTCCCAATTC CAGAGGTTAT	400

- (2) INFORMATION FOR SEQ ID NO: 3536:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1118 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3536:

CGTATAGAGT GTCCTACAAC CCCAACAAGC AAGCTTGTTG GTTTGGGCTC TTCCCGTTTC 60 GCTCGCCGCT ACTAAGGGAA TCGAATTTTC TTTCTCTTCC TCCGGGTACT AAGATGTTTC 120 AGTTCTCCGG GTGTGCCTTC TGATATGCTA TGTATTCACA TATCGATAAC ATGACATAAC 180 TCATGCTGGG TTTCCCCATT CGGAAATCTC TGGATCAAAG CTTACTTACA GCTCCCCAAA 240 GCATATCGTC GTTAGTAACG TCCTTCATCG GCTTCTAGTG CCAAGGCATC CACCGTGCGC 300

CCTTAATAAC	TTAATCTATG	TTTCCACCAT	TTTTATAGT	CAAACGCTCA	CATACGGCTT	360
CGTTTTCATT	ATTTTAAATG	CTCATTTACA	TAAGTAAACT	CTGCTTTAAA	ATAATTTAAC	420
TCATTGTCTG	CTAAACGTTT	TCTTTTATAA	AAAGATTTAA	ACGCGTTATT	AATCTTGTGA	480
GTGTTCTTTC	GAACACTAGC	GATTATTTCT	TATGAATTCA	AGCTTATTTA	AAACTCTTTA	540
TTCACTCGGT	TTTGCTTGGT	AAAATCTATA	TTTTACTTAC	TTATCTAGTT	TTCAATGTAC	600
AATTTCTTTT	TAGTCAAGCG	CTCGCATACT	GCTTTATTTT	CAAAAAATCA	AATGCTCATT	660
TACAAAAGTA	AACTCCGCTT	TAATTTTTCT	TAATGCATTG	TCTAACAACC	GCTTTCTTTA	720
AAAAGAATAG	ATTGTCAAŒ	GCTCGCATAA	GCAATATCAC	TTTAACCAAA	AAATATTTGA	780
ATGTTAAATA	AACATTCAAA	ACTGAATACA	ATATGTCACG	TTATTCCGCA	TCTTCTGAAG	840
AAGATGTTCC	GAATATATCC	TTAGAAAGGA	GGTGATCCAG	CCGCACCTTC	CGATACGGCT	900
ACCTTGTTAC	GACTTCACCC	CAATCATTTG	TCCCACCTTC	GACGCTAGC	TCCTAAAAGG	960
TTACTCCACC	GGCTTCGGGT	GTTACAAACT	CTCGTGGTGT	GACGGGCGGT	GTGTACAAGA	1020
CCCGGGaACG	TATTCACCGT	AGCATGCTGA	TCTACGaTTA	CTAGCGtTCC	AGCTTCATGT	1080
AGTCGAGTGC	AGACTACCAT	CCGGACTGnG	GACCAACT			1118

(2) INFORMATION FOR SEQ ID NO: 3537:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 424 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 337:

GGGGATCCCC AGCCAGAAGA TTTATTC	AGT GCGATGATTC GTGAAATTGA AACGCAAGAT	60
TTCGATATCG AACACCTGGC GACGGCAA	ATT CGTAAmGTTG AAACATCAAC ATTAGGTGAA	120
GAAAGTGAAA ATGACTTTAT CGGTCTG	TTC AGCGATATGG ATTTGAGTTC AACGCGACTA	180
GGTAACAATG TCAAAGAACG TACTGCTT	TA ATCTCTAAAG TCATGGTTAA TCTTGACGAC	240
TTACCATTCG TTCACAGTGA CATGGAAA	ATT GATATGTTAG GTGATGCATA TGAATTCCTA	300
ATTGGGCGCT TTGnGCGACA CGGGTAA	AAA AAGCAGGCGA GTTCTATACA CCACAACAAG	360
TATCTAAGAT ACTGGCGAnG ATTGTCAG	CAG ACGGTAAAGA TAAATÆCGT CACGTGTATG	420
ACCC		424

- (2) INFORMATION FOR SEQ ID NO: 3538:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3538:

ATCTCATATG	TTAAAAGGTA	AACAAGGTCG	TTTCCGTCAA	AACTTACTTG	GTAAACGTGT	60
TGACTATTCA	GGACGTTCAG	TTATTGCAGT	AGGTCCAAGC	TTGAAAATG T	ACCAATGTGG	21.0
TTTACCAAAA	GAAATGGCAC	TTGAACTATT	TAAACCA T TC	GTAATGAAAG	AATTAGTTCA	180
ACGTGAAATT	GCAACTAACA	TTAAAAATGC	GAAGAGTAAA	ATCGAACGTA	TGGATGATGA	240
AGTTTGGGAC	GTATTGGAAG	AAGTAATTAG	AGAACATCCT	GTATTACTTA	ACCGTGCACC	300
AACACTTCAT	AGACTTGGTA	TTCAAGCATT	TGAACCAACT	TTAGTTGAAA	GGTCGTGCGA	360
TTCGTCTACA	TCCACTTGTA	ACAACAGCTT	ATAACGCTGA			400

(2) INFORMATION FOR SEQ ID NO: 3539:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1171 base pairs
- (B) TYE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3539:

AATAAGTAAG	TTATTTTGTC	TGGTGACTAT	AGCAAGGAGG	TCACACCTGT	TCCCATGCCG	60
AACACAGAAG	TTAAGCTCCT	TAGCGTCGAT	GGTAGTCGAA	CTACGTTCC	GCTAGAGTAG	120
AACGTTGCCA	GGCAAATGAC	AAATCGGAGA	ATTAGCTCAG	CTGGGAGAGC	ATCTGCCTTA	180
CAAGCAGAGG	GTCGGCGGTT	CGAACCCGTC	ATTCTCCACC	ATTTATTCTT	AGATATAGCC	240
GGCCTAGCTC	AATTGGTAGA	GCAACTGACT	TGTAATCAGT	AGGTTGGGGG	TTCAAGTCCT	300
CTGGCCGGCA	CCATCTTTTG	AGCCATTAGC	TCAGCTGGTA	GAGCATCTGA	CTTTTAATCA	360
GAGGGTCAGA	GGTTCGAATC	CTCTATGGCT	CATTACGATT	TAATTTTTAT	AT T TAGCAAA	420
ATAATGCAGA	AGTAGTTCAG	CGGTAGAATA	CAACCTTGCC	AAGGTTGGGG	TCGCGGGTTC	480
GAATCCCGTC	TTCTGCTCCA	TTATTTTGCC	GGGGTGGCGG	AACTGGCAGA	CGCACAGGAC	540
TTAAAATCCT	GCGGTGAGAG	ATCACcGTAc	CGGTTCGATT	CCGGTCCTCG	GCACCATTTT	600
AGCGCCCGTA	GCTCAATTGG	ATAGAGCGTT	TGACTACGGA	TCAAGAGGTT	ATGGGTTCGA	660
CTCCTATCGG	GCGCGCCATT	TTTAAATTAA	TTGAATAACG	GGAAGTAGC	CAGCTTGGTA	720
GAGCACTTGG	TTTGGGACCA	AGGGGTCGCA	GGTTCGAATC	CTGTCTTCCC	GATTACTTCT	780
TAAATTCCAT	TTTATGGGGG	CTTAGCTCAG	CTGGGAGAGC	GCCTGCTTTG	CACGCAGGAG	840

GTCAGCGGTT	CGATCCCGCT	AGTCTCCACC	ATTTATTTT	TACACGATGA	ACATTGAAAA	900
CTGAATGACA	ATATGTCAAC	GTTAATTCCA	AAAAACGTAA	CTATAAGTTA	CAAACATTAT	960
TTAGTATTTA	TGAGCTAATC	AAACATCATA	ATTTTTATGG	AGAGTTTGAT	CCTGGCTCAG	1020
GATGAACGCT	GGCGGCGT G C	CTAATACATG	CAAGTCGAGC	GAACGGACGA	GAAGCTTGCT	1080
TCTCTGaTGT	TAGCGGCGGA	CGGGTGAGTA	ACACGTGGgA	TAACCTACCT	ATAA G ACTGG	1140
GaTAACTTCG	GGaAACCGGA	GCTAATACCG	G			1171

(2) INFORMATION FOR SEQ ID NO: 3540:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 601 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3540:

CTCGGC	AGTG	TGAAATCAAC	GACTCGAAGA	CACAATGTCT	TCTCCCCATC	ACAGCTCAGC	60
CTTAAC	GAGT	ACCGGATTTG	CCTAATACTC	AGCCTTACTG	CTTAGACGTG	CAATCCAATC	120
GCACGC'	TTCG	CCTATCCTAC	TGCGTCCCCC	CATCGATTAA	AACGATTATA	GGTGGTACAG	180
GAATAT	CAAC	CTGTTATCCA	TCGCCTACGC	CTGTCGGCCT	CAGCTTAGGA	CCCGACTAAC	240
CCAGAG	CGGA	CGAGCCTTCC	TCTGGAAACC	TTAGTCAATC	GGTGGACGGG	ATTCTCACCC	300
GTCTTT	CGCT	ACTCACACCG	GCATTCTCAC	tTCTAAGCGC	TCCACATGTC	CTTACGATCA	360
TGCTTC	AACG	CCCTTAGAAC	GCTCTCCTAC	CATTGTCCAA	AGGCATwCrC	ACAGCTTCGG	420
TaATAT	GTTT	AGCCCCGGTA	CATTTTCGGC	GCAgTGTCAC	TCGACTAGTG	AGCTATTACG	480
CACTCT	TTAA	ATGATG G CTG	CTTCTnAGCC	AÆATCCTAG	GTTGGTCTGG	GGCACGCnAC	540
ATCCTT	TTCC	ACTTAACATA	TATTTTGGGG	ACCTTGGCTG	GTGGGTCTGG	GGCTGnTTCC	600
С							601

(2) INFORMATION FOR SEQ ID NO: 3541:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3541:

GCnAGGACCT TnCCAAATTT GAAATCCTTT GACCACnTTT GGGGTAGAGC CTTTCCCnC 60

GGG	GGACAAAG	TGACCAGGTG	GTGCATGGTT	GTCGTCAGCT	CGTGTCGTGA	GATGTTGGGT	120
TAA	AGTCCCC G	CAACGAGCGC	AACCCTTAAG	CTTAGTTGCC	ATCATTAAGT	TGGGCACTCT	180
AAG	GTTGACTG	CCGGTGACAA	ACCGGAGGAA	GGTGGGGATG	ACGTCAAATC	ATCATGCCCC	240
TTA	ATGATTTG	GGCTACACAC	GTGCTACAAT	GGACAATACA	AAGGGCAGCG	AAACCGTGAG	300
nTC	CAAGCAAA	TCCCATAAAG	TTGTTCTCAG	TTCGGATTGT	AGTCTGCAAC	TCGACTACAT	360
GAA	AGCTGGAA	TCGCTAGTAA	TCGTAGATCA	GCATGCTACG	GTGAATACGT	TCCCGGGTCT	420
TGI	TACACACC	GCCCGTCACA	CCACGAGAGT	TTŒAACACC	CGAAGCCGGT	GGAGTAACCT	480
TTI	TAGGAGCT	AGCCGTCGAA	GGTGGGACAA	ATGATTGGGG	TGAAGTCGTA	ACAAGGTAGC	540
CGI	TATCGGAA	GGTGCGGCTG	GATCACCTCC	TTTCTAAGGA	TATATTCGGA	ACATCTTCTT	600
CAG	GAAGATGC	GGAATAACGT	GACATATTGT	ATTCAGTTTT	GAATGTTTGT	TCATTCAAA	660
TAA	ATGGGCCT	ATAGCTCAGC	TGGTTAGAGC	GCACGCCTGA	TAAGCGTGAG	GTCGGTGGTT	720
CGA	AGTCCACT	TAGGCCCACC	ATTAATTTAA	TACCTATTTG	GGGGCTTAGC	TCAGCTGGGA	780
GAG	GCGCCTGC	TTTGCACGCA	GGAGGTCAGC	GGTTCGATCC	CGCTAGTCTC	CACCATTATT	840
TGI	TACATTGA	AAACTAGATA	AGTAAGTAAA	ATATAGATTT	TACCAAGCAA	AACCGAGTGA	900
ATA	AAAGAGTT	TTAAATAAGC	TTGAATTCAT	AAGAAATAAT	CGCTAGTGTT	CGAAAGAACA	960
CTC	CACAAGAT	TAATAACGCG	TTTAAATCTT	TTTATAAAAG	AACGTAACTT	CATGTTAACG	1020
ттт	rgacttat	AAAAATGGTG	GAAACATAGA	TTAAGTTATT	AAGGCCCAC	GGTGGATGCC	1080
TTG	GCACTAG	AAGCCGATGA	AGGACGTTAC	TAACGACGAT	ATGCTTTGGG	GAGCTGTAAG	1140
TAA	AGCTTTGA	TCCAGAGATT	TCCGAATGGG	GAAACCCAGC	ATGAGTTATG	TCATGTTATC	1200
GAI	TATGTGAA	TACATAGCAT	ATCAGAAGGC	ACACCCGGAG	AACTGAAACA	TCTTAGTACC	120
CGG	GAGGAAGA	GAAAGAAAAT	TCGATTCCCT	TAGTAGCGGC	GAGCGÀAATG	G	1311

(2) INFORMATION FOR SEQ ID NO: 3542:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3542:

TTCCCATGCC GAACACAGAA GTTAAGCTCC TTAGCGTCGA TGGTAGTCGA ACTTACGTTC 60

CGCTAGAGTA GAACGTTGCC AGGCAAATGA CAAATCGGAG AATTAGCTCA GCTGGGAGAG 120

CATCTGCCTT ACAAGCAGAG GGTCGGCGGT TCGAACCCGT CATTCTCCAC CATTTATTCT 180

TAGATATAGC CGGCCTAGCT CAATTGGTAG AGCAACTGAC TTGTAATCAG TAGGTTGGGG 240

GTTCAAGTCC	TCTGGCCGGC	ACCATCTTTT	GAGCCATTAG	CTCAGCTGGT	AGAGCATCTG	300
ACTTTTAATC	AGAGGGTCAG	AGGTTCGAAT	CCTCTATGGC	TATTACGAT	TTAATT TT TA	360
TATTTAGCAA	AATAATGCAG	AAGTAGTTCA	GCGGTAGAAT			400

(2) INFORMATION FOR SEQ ID NO: 3543:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 804 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3543:

GTGAGAGTGA CGTTATGTTA	TGTAAATAAC	AGTTAATTAT	ACCGGTGGTC	GGGGTCGAAC	60
CGCACTCCAC AAGTGGAAGA	GaTTTTGAGT	CCCGCGCGTC	TGCCAATTCC	GCCACACCGG	120
CTTAATGGTA AACAAAAAC	TTCCCTTTGG	AAGCAATTAT	GGAGCGGAAG	ATAGGATTTA	180
CACCTATACC TCGTTCCGGG	aAGGAACtGg	TTCTAAAAGT	TGAACTACTC	CCGCAAATAT	240
TAAATTATGG AGÇGGAAGAT	AGGATTTACA	CCTATACCTC	ATTCCAGGAA	GGAATGTATT	300
CTAAGAGTTG AAATACTCCC	GCATTATTAT	TAAATTATGG	AGCGGAAGAT	AGGATTTGCA	360
CCTATACCTC GTTCCGGGAA	GGAckTGTTt	CTAAAAGTTG	AACTACTCCC	GCATAAACCT	420
GGAGGCGGCA ACCGGATTTG	AACCGGTGAT	AAAGGTTTTG	CAGACCTCTG	CCTTACCACT	480
TGGCTATGCg CcAATAACTG	GGCTAGCTGG	ATTCGAACCA	ACGATGACG	GATmAAAGTC	540
CGTTGCCTTA CCGCTTGGCT	ATAGCCCATT	AATAATAAGG	GCGGCTGAAG	GGGATCGAAC	600
CCTCGAATGT CGGAACCACA	ATCCGATGTG	TTAACCACTT	CACCACAGCC	GCCATGGCAG	660
GGGCAGTAGG AATCGAACÇC	ACACCAAAGT	TTTGGaGACC	TCTATTCTAC	CGTTGAACTA	720
TGCCCCTATT aAAAATaaTA	AT kGGAGGGG	GGCAGATTCG	AAnTGCC G AA	CCCGAAGGAG	780
CGGGATTTAC ATTCCGCCGG	GTTT				804

(2) INFORMATION FOR SEQ ID NO: 3544:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3544:

ATGATGTCGT TGCACAATCA ATTGATAAAT TACATTATAG CTTTAATCGT TTGAAGTATA 60

GTTTGAAACC	AGTAGTCACA	GCTGTTCAAG	GTCGTGCCTT	AGGCGGTGGC	TGTGAGCTTG	120
TACTTTACTC	ACCTATTGTT	GTCGCTGCAA	GTGAAACATA	TATCGGTCTT	GTTGAAGCAG	180
GTGTTGGCTT	ATTACCGAGT	GGCGGTGGCC	TTGCAGAAAT	GGCTGATCGC	ATATTACGCA	240
CATCGCATAA	GTTTGATkAC	AAACAAGCTT	CCATGACAAA	AGTACGACG .	AATATCGCAT	300
TTGCGAAAGT	CTCTACAAAT	GCCTTTGAGG	CACGTCGTTA	TGGTTATTTA	CGTGGATACA	360
GATACGATTA	TTTTCAATAC	AGCACAACGT	GTCCGAAGTT			400

(2) INFORMATION FOR SEQ ID NO: 3545:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 474 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3545:

CCGGCATTCT CACTTCTAAG CGCTCCACAT GTCCTTACGA TCATGCTTCA ACGCCCTTAG 60 AACGCTCTCC TACCATTGTC CAAAGGNATC nCACAGCTTC GGTAATATGT TTAGCCCCGG 120 TACATTTTCG GCGCAGTGTC ACTCGACTAG TGAGCTATTA CGCACTCTTT AAATGATGGC 180 TGCTTCTAAG CCAACATCCT AGTTGTCTGG GCAACGCaCA TCCTTTTCCA CTTAACATAT 240 ATTTTGGGAC CTTAGCTGGT GCTCTGGGCT GTTTCCCTTT CGAACACGGA CCTTATCACC 300 CATGTTCTGA CTCCCAAGTT AAATTAATTG GCATTCGGAG TTTGTCTGAA TTCGGTAACC 360 CGAGAGGGGC CCCTCGTCCA AACAGTGGCT CTACCTCCAA TAATCATCAn TTGAGGCTAG 420 CCCTAAAGCT AATTCGGAGA GAACCAGTAT CTCCAGTTCG ATTGGAATC TnCG 474

(2) INFORMATION FOR SEQ ID NO: 3546:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE ESCRIPTION: SEQ ID NO: 3546:

TTCAGTGCGA TGATTCGTGA AATTGAAACG CAAGATTTCG ATATCGAACA CCTGGCGACG 60

GCAATTCGTA AAGTTGAAAC ATCAACATTA GGTGAAGAAA GTGAAAATGA CTTTATCGGT 120

CTGTTCAGCG ATATGGATTT GAGTTCAACG CGACTAGGTA ACAATGTCAA AGAACGTACT 180

GCTTTAATCT CTAAAGTCAT GGTTAATCTT GACGACTTAC CATTCGTTCA CAGTGACATG 240

GAAATTGATA TGTTAGGTGA TGCATATGAA TTCCTAATTG GGCGCTTTGN GCGACACGGG 300

TAAAAAAAGC AGGCGAGTTC TATACACCAC AACAAGTATC TAAGATACTG GCGAGATTGT	360
CACAGACGGT AAAGATAAnT ACGICACGTG TATGACCCAA	400
(2) INFORMATION FOR SEQ ID NO: 3547:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3547:	
AACGTTTTCA CTTCGCCAAG CCATTTTTCT TTGTGTTTAC TTTTTATTTT GACGTTTTAG	60
ACATAAAAAA AAGAGACCTT GCGGTCTCAA TGCGGCTCAT CGCATCCATT TTTTGCCTGG	120
CAACGTTCTA CTCTAGCGGA ACGTAAGTTG GCTACCATCG ACGTAAGAA CCTTTCTTGA	180
CTTGTGACAA TCGCTTGCTT CTTTCCTCTT CTTCGGCTCT CGCTTACTCA TTTAGCTCTA	240
CTAAACTCGT TGCGCTCTTT TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TTCGCCAAGC	300
CATTTTCTT TGTGTTTGCT TTTTATTTTG ACGTTTTAGA CATAAAAAA AGAGACCTTG	360
CGGTCTCAAT GCGGCTCATC GCATCCAnTT TTTGCCTGGC	400
(2) INFORMATION FOR SEQ ID NO: 3548:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3548:	
ATGATGTCGT TGCACAATCA ATTGATAAAT TACATTATAG CTTTAATCGT TTGAAGTATA	60
GTTTGAAACC AGTAGTCACA GCTGTTCAAG GTCGTGCCTT AGGCGGTGGC TGTGAGCTTG	120
TACTTTACTC ACCTATTGTT GTCGCTGCAA GTGAAACATA TATCGGTCTT GTTGAAGCAG	180
GTGTTGGCTT ATTACCGAGT GGCGGTGGCC TTGCAGAAAT GGCTGATCGC ATATTACGCA	240
CATCGCATAA GTTTGATGAC AAACAAGCTT CCATGACAAA AGTACTGACG AATATCGCAT	300
TTGCAAAGTC TCTACAAATG CCTTTGAGGC ACGTCGTTAT GGTTATTAC GTGATACAGA	360
TACGATTATT TTCAATACAG CACAACGTGT CCGAAGTTGG	400

(i) SEQUENCE CHARACTERISTICS:

(2) INFORMATION FOR SEQ ID NO: 3549:

(A) LENGTH: 400 base pairs

(B)	TYPE: n	ucleic	acid
(C)	STRANDE	DNESS:	double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3549:

AGGTTACTCC	ACCGGCTTCG	GGTGTTACAA	ACTCTCGTGG	TGTGACGGGC	GGTGTGTACA	60
AGACCCGGGA	ACGTATTCAC	CGTAGCATGC	TGATCTACGA	TTACTAGCGA	TTCCAGCTTC	210
ATGTAGTCGA	GTTGCAGACT	ACAATCCGAA	CTGAGAACAA	CTTTATGGGA	TTTGCTTGAC	180
CTCGCGGTTT	CGCTGCCCTT	TGTATTGTCC	ATTG T AGCAC	GTG T GTAGCC	CAAATCATAA	240
GGGGCATGAT	GATTTGACGT	CATCCCCACC	TTCCTCCGGT	TTGTCACCGG	CAGTCAACTT	300
AGAGTGCCCA	ACTTAATGAT	GŒAACTAAG	CTTAAGGGTT	GCGCTCGTTG	CGGGACTTAA	360
CCCAACATCT	CACGACACGA	GCTGACGACA	ACCATGCACC			400

(2) INFORMATION FOR SEQ ID NO: 3550:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3550:

CGAACGGACG	AGAAGCTTGC	TTCTCTGATG	TTAGCGGCGG	ACGGGTGAGT	AACACGTGGA	60
TAACCTACCT	ATAAGACTGG	GATAACTTCG	GGAAACCG G A	GCAATACCG	GATAATATTT	120
TGAACCGCAT	GGTTCAAAAG	TGAAAGACGG	TCTTGCTGTC	ACTTATAGAT	GGATCCGCGC	180
TGCATTAGCT	AGTTGGTAAG	GTAACGGCTT	ACCAAGGCAA	CGATGCATAG	CCGACCTGAG	240
AGGGTGATCG	GCCACACTGG	AACTGAGACA	CGGTCCAGAC	TCCTACGGGA	GGCAGCAGTA	300
GGGAATCTTC	CGCAATGGGC	GAAACCTGAC	GGAGCAACGC	CGCGTGAGTG	ATGAAGGTCT	360
TCGGATCGTA	AAACTCTGTT	ATTAGGGAAG	AACATATGTG			400

(2) INFORMATION FOR SEQ ID NO: 3551:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 506 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3551:

ACAAGGTAGC CGTATCGGAA GGTGCGGCTG GATCACCTCC TTTCTAAGGA TATATTCGGA 60

ACATCTTCTT C	CAGAAGATCC	GGAATAACGT	GACATATTGT	ATTCAGTTTT	GAATGTTTAT	120
TTAACATTCA A	ATATTTTTT	GGTTAAAGTG	ATATTGCTTA	TGCGAGCGCT	TGACAATCTA	180
TTCTTTTTAA A	AGAAAGCGGT	TGTTAGACAA	TGCATTAAGA	AAAATTAAAG	CGGAGTTTAC	240
TTTTGTAAAT G	SAGCATTTGA	TTTTTTGAAA	ATAAAGCAGT	ATGGAGCGC '	TTGACTAAAA	300
AGAAATTGTA C	CATTGAAAAC	TAGATAAGTA	AGTaAAATAT	AGATTTTACC	AAGCAAAACC	360
GAGTGAATAA A	GAGTTTTAA	ATAAGCTTGA	ATTCATAAGA	aTAATCGCTA	GTGTTCGAAA	420
GAACACTCAC A	AGATTAATA	ACGCGTTTAA	ATCTTTTTAT	AAAAGAnAAC	GTTTAGCAGA	480
CAATGAGTTA A	ATTATTTA	AAGCAG				506

(2) INFORMATION FOR SEQ ID NO: 3552:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2209 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3552:

60	CACCTATAAT	ATTCCTGTAC	ACAGGTTGAT	GCGATGGATA	CGACAGTGGn	AAGCTGAGGC
120	TGCACGTCTA	TCGATTGGAT	AGGCGACGTG	CGCATAGGAT	GATGGGGGGA	CGTTTTAATC
180	GTGATGGGGA	AGGCTGAGCT	GTACTCGTTA	GGCAAATCCG	CTGAGTATTA	AGCAGTAAGG
240	TCTAGATAGA	GAGAAAAGCC	TCACACTGCC	GTCGTTGATT	TGTCTTCgAG	GAAGACATTG
300	TAAGGTGAGC	ATGAGAATTC	GGTAGTCAAG	AACCGACACA	CCGTACCGCA	AAATAGGTGC
360	GAAGGGGTGC	AACTTGGGA	ATGACCCCGT	ACTCGGCAAA	TCGTTAAGGA	GAGCGAACTC
420	GTTTATCAAA	CCAAGCGACT	GTGAATAGGC	AAGAGCCGCA	TAACGCCCAG	TCTTTAGGGT
480	CCCGGTGCTG	CTGACGCCTG	TGTATAGGGG	CGTAAGtGAn	TCTGCTAAAC	AACACAGGTC
540	GTAAACGGCG	CGAAGCCCCA	AAcTAcGaAT	AGCTTCTGCG	AGGAGTGGTT	GAAGGTTAAG
600	CCGACCCGCA	CGGGTAAGTT	AATTCCTTGT	AAGGTAGCGA	TAACGGTCCT	GCCGTAACTA
660	CATAGTACCT	TCGGTGAAAT	AACGAGAGAC	GCACTGTCTC	AACGATTTGG	CGAAAGGCGT
720	ACTGTAGCCT	GTGGAGCTTT	GAAAGACCCC	CGACAGGACG	AGGTTACCCG	GTGAAGATGC
780	CGTGAGCGCT	GCCTTTGAAA	ATAGGTAGGA	CTTGTACAGG	TTCGGCACAG	GATATTGAAA
840	AACCCGCACC	TTGGCTTTCT	CCTAGCTGTG	GGGATACTAC	aGGCGCTGGT	AcTTaCgTGG
900	CGCCTCCTAA	CTGGGGCGGT	GGCAGTTTGA	GTGTCAGGCG	GTGGGAGACA	ACTTATCGTG
960	AAGAGTGTA	GAAATCATTC	AGAATGGTTG	AGGTTCCCTC	AGGCGCTCAA	AAGGTAACGG

A.	aggcata a g	GGAGCTTGAC	TGCGAGACCT	ACAAGTCGAG	CAGGGTCGAA	AGACGGACTT	1020
A	GTGATCCGG	TGGTTCCGCA	TGGAAGGGCC	ATCGCTCAAC	GGATAAAAGC	TACCCCGGGG	1080
A.	TAACAGGCT	TATCTCCCCC	AAGAGTTCAC	ATCGACGGGG	AGGTTTGGCA	CCTCGATGTC	1140
G	GCTCATCGC	ATCCTGGGGC	TGTAGTCGGT	CCCAAGGGTT	GGGCTGTTCG	CCCATTAAAG	1200
C	GGTACrmGg	CTGGGTTCAG	AACGTCGTGA	GaCAGTTCGG	TCCCTATCCG	TCGTGGGCGT	1260
A	GGAAATTTG	AGAGGAGCTG	TCCTTAGTAC	GAGAGGACCG	GGATGGACAT	ACCTCTGGTG	1320
TA	ACCAGTTGT	CGTGCCAACG	cATnAGCTGG	GTACTATGT	GTGGACGGGA	TAAGTGCTGA	1380
AA	AcATnCTnA	AGCATGAAGC	CCCCCTCAAG	ATGAGATTTC	CCAACTTCGG	TTATAAGATC	1440
C	CTCAAAGAT	GATGAGGTTA	ATAGGTTCGA	GGTGGAAGCA	TGGTGACATG	TgGGAGCTGA	1500
C	GAATACTAA	TCGATCGAAG	ACTTAATCAA	AATAAATGTT	TTGCGACAAA	tnCaCTTTTA	1560
C'	гтастатст	AGTTTTGAAT	GTATAAATTA	CATTCATATG	TCTGGTGACT	ATAGCAAGGA	1620
G	GTCACACCT	GTTCCCATGC	CGAACACAGA	AGTTAAGCTC	CTTAGCGTCG	ATGGTAGTCG	1680
Αl	ACTTACGTT	CCGCTAGAGT	AGAACGTTGC	CAGGCAGTTT	TTTAATCAAA	TTTTGGTTAA	1740
A	TAAAATAAA	GGACAAGATA	AAAAAAGTTA	TTGACTTAAA	TGTTAATAAA	ATGTATAATT	1800
ΑA	ATTCTTGTC	GGTAAGAAAA	ATGAACATTG	AAAACTGAAT	GACAATATGT	CAACGTTAAT	1860
TO	CCAAAAAAC	GTAACTATAA	GTTACAAACA	TTATTTAGTA	TTTATGAGCT	AATCAAACAT	1920
CF	TTTTTAAT	ATGGAGAGTT	TGATCCTGGC	TCAGGATGAA	G CTGGCGGC	GTGCCTAATA	1980
CA	ATGCAAGTC	GAGCGAACGG	ACGAGAAGCT	TGCTTCTCTG	ATGTTAGCGG	CGGACGGGTG	2040
AC	GTAACACGT	GGATAACCTA	CCTATAAGAC	TGGGATAACT	TCGGGAAACC	GGAGCTAATA	2100
CC	CGGATAATA	TTTTGAACCG	CATGGTTCAA	AAGTGAAAGA	CGGTCTTGCT	GTCACTTATA	2 106
GP	ATGGATCCg	CGCTGCATTA	GCTAGTTGGt	AAGGtAACGG	CTTTACCCA		2209

(2) INFORMATION FOR SEQ ID NO: 3553:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 518 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3553:

CTAGATAAGT AAGTAAAATA TAGATTTTAC CAAGCAAAAC CGAGTGAATA AAGAGTTTTA 60

AATAAGCTTG AATTCATAAG AAATAATCGC TAGTGTTCGA AAGAACACTC ACAAGATTAA 120

TAACGCGTTT CCTGTAGCAT GGAAACATAG ATTAAGTTAT TAAGGGCGCA CGGTGGATGC 180

CTTGGCACTA GAAGCCGATG AAGGACGTTA CTAACGACGA TATGCTTTGG GGAGCTGTAA 240

GTAAGCTTTG	ATCCAGAGAT	TTCCGAATGG	GGAAACCCAG	CATGAGTTAT GTCATGTTAT	300
CGATATGTGA	ATACATAGCA	TATCAGAAGG	CACACCCGGA	GAÆTGAAAC ATCTTAGTAC	360
CCGGAGGAAG	AGAAAGAAAA	TTCGATTCCC	TTAGTAGCGG	CGAGCGAAAC GGGAAGAGCC	420
CAAACCAACA	AGCTTGCTTG	TTGGGGTTGT	AGGaCACTCT	ATACGGAGTT ACaAAGGmCG	480
ACATTrGACG	AaTCATCTGG	gAAAGwTGaT	CCAAGGAA		518

(2) INFORMATION FOR SEQ ID NO: 3554:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 587 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3554:

AGAATGACGG GTTCGAACCG CCGACCCTCT GCTTGTAAGG CAGATGCTCT CCCAGCTGAG 60 CTAATTCTCC GATTTAAAAC TGCCTGGCAA CGTTCTACTC TAGCGGAACG TAAGTTsGAC 120 TACCATCGAC GCTAAGGAGC TTAACTTCTG TGTTCGGCAT GGGAACAGGT GTGACCTCCT 180 TGCTATAGTC ACCAGACATA TGAATGTAAT TTATACATTC AAAACTAGAT AGTAAGTAAA 240 AGTGATTTTG CTTCGCAAAA CATTTATTTT GATTAAGTCT TCGATCGATT AGTATTCGTC 300 AGCTCCACAT GTCACCATGC TTCCACCTCG AACCTATTAA CCTCATCATC TTTGAGGGAT 360 CTTATAACCG AAGTTGGGAA ATCTCATCTT GAGGGGGGCT TCATGTTAG ATGCTTTCAG 420 CACTTAtCCC GTCCACACAT AGCTACCCAG CTATGCCGTT GGCACGACAA CTGGTACACC 480 AGAGGTATGT CCATCCCGGT CCTCTCGTAC TAAGGACAGC TCCTCTCAAA TTTCCTACGC 540 CCACGACGG TAGGGaCCGA ACTGtCTCAC GACGTTCTGA ACCCAGA 587

(2) INFORMATION FOR SEQ ID NO: 3555:

- (i) SEOUENCE CHARACTERISTICS:
 - (A) LENGTH: 399 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 355:

GAATCTGAAT CGCTATCTGA ATCCGAGTCA CTGTCGGAAT CTGAGTCACT GTCGGAATCT 60
GAATCGCTAT CTGAATCTGA ATCGCTGTCT GAATCTGAAT CGCTGTCTGA ATCTGAGTCG 120
CTATCTGAGT CGGAATCGCT ATCTGAGTCG GAATCACTGT CGGAATCTGA ATCGCTGTCT 180

GAGTC	GAAT	CACTGTCGGA	GTCAGAATCG	CTGTCTGAGT	CGGAATCACT	GTCGGAATCT	240
GAATC	GCTAT	CTGAATCTGA	ATCGCTATCT	GAATCCGAGT	CACTGTCTGa	GTCAGAATCG	300
CTATCT	rggaa	TCTGGAGTCA	CTGTCGGaAT	CTGAGTCACT	GGTCTGGAGT	CAGAATCGCT	360
ATCTGG	SAATC	CGAnGTCATG	GTCTGAGTCG	GGaATCGCT			399

(2) INFORMATION FOR SEQ ID NO: 3556:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3556:

ATTCATCTTT	CCAGATGATT	CGTCTAATGT	CGTCCTTTGT	AACTCCGTAT	AGAGTGTCCT	60
ACAACCCCAA	CAAGCAAGCT	TGTTGGTTTG	GGCTCTTCCC	GTTTCGCTCG	CCGCTACTAA	120
GGGAATCGAA	TTTTCTTTCT	CTTCCTCCGG	GTACTAAGAT	GTTTCAGTTC	TCCGGGTGTG	108
CCTTCTGATA	TGCTATGTAT	TCACATATCG	ATAACATGAC	ATAACTCATG	CTGGGTTTCC	240
CCATTCGGAA	ATCTCTGGAT	CAAAGCTTAC	TTACAGCTCC	CCAAAGCATA	TCGTCGTTAG	300
TAACGTCCTT	CATCGGCTTC	TAGTGCCAAG	GCATCCACCG	TGCGCCCTTA	ATAACTTAAT	360
CTATGTTTCC	ATCCTACAGG	AAACGCGTTA	TTAATCTTGT			400

(2) INFORMATION FOR SEQ ID NO: 3557:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 657 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3557:

CTTAGATGCT	TTCAGCACTT	ATCCCGTCCA	CACATAGCTA	CCCAGCTATG	CCGTnGGACG	60
ACAACTGGTA	CACCAGAGGT	ATGTCCATCC	CGGTCCTCTC	GTACTAAGGA	CAGCTCCTCT	120
CAAATTTCCT	ACGCCCACGA	CGGATAGGGA	CCGAACTGTC	TCEGACGTT (CTGAACCCAG	180
CTCGCGTACC	GCTTTAATGG	GCGAACAGCA	Anccettggg	ACCGACTACA	GCCCCAGGAT	240
GCGATGAGCc	GACATCGAGG	TGCCAAACCT	CCCCGTCGAT	GTGAACTCTT	GGGGGAGATA	300
AGCCTGTTAT	CCCCGGGGTA	GCTTTTATCC	GTTGAGCGAT	GGCCCTTCCA	TGCGGAACCA	360
CCGGATCACT	AAGTCCGTCT	TTCGAcCCTG	CTCGACTTGT	AGGTCTCGCA	GTCAAGCTCC	420
CTTATGCCTT	TACACTCTAT	GAATGATTTC	CAACCATTCT	GAGGGAACtT	TGAGCGCCTC	480

CGTTACCTTT	TAGGAGGCGA	CCGCCCCAGT	CAAACTGCCc	GCcTGACACT	GTCTACcmCC	540
ACGATAAGTG	GTGCGGGTTm	GmAA@CAAC	ACAGCTAGGG	TAGTATCCCA	CCAGCGCCTn	600
CCCACTAATA	GCGCTCACGT	TTCAAAGGCT	CCTACCTATC	CTGTACAAGC	TGTGCCG	657
(2) INFORM	ATION FOR SE	EQ ID NO: 3	558:			

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3558:

GAGTCCATGG GTGAAAGAAG CATCTGCAGC AACTGTAGCA GGTATTGCTG GAACTA	ATAA 60
TGGTATTACT GTTGCAGCAG GTACTTTCAA CCCTGCTGAT ACAATCAAG TTGTTGC	AAC 120
GCAAGGACAG CGGAGAGACA GTGAGTGATG AGCAACGTAT nnTnGATTTC ACAGTT	GTCG 180
CACCACAACC GAACCAAGCG ACTACTAAGA TTTGGCAAAA TGGTCATATT GATATC	ACGC 240
CTAATAATCC ATCAGGACAT TTAATTAATC CAACTCAAGC AATGGATATT GCTTAC	ACTG 300
AAAAAGTGGG TAATGGTGCA GAACATAGTA AGACAATTAA TGTTGTTCGT GGTCAA	AATA 360
ATCAATGGAC AATTGCGAAT AAGCCTGACT ATGTAACGTT	400

- (2) INFORMATION FOR SEQ ID NO: 3559:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3559:

AAACGAATGC	ATACAATGTA	ACAACACATG	CAAACGGCCA	AGTATCATAC	GGAGCTCGTC	60
CGACACAAAA	CAAGCCAAGC	A AACAAACG	CATATAACGT	AACAACACAT	GGAAACGGCC	120
AAGTATCATA	TGGCGCTCGC	CAACACAAAA	CAAGCCAAGC	AAAACAAATG	CATACAACGT	180
AACAACACAT	GCAAACGGTC	AAGTGTCATA	CGGAGCTCGC	CCGACATACA	AGAAGCCAAG	240
TAAAACAAAT	GCATACAATG	TAACAACACA	TGCAGATGGT	ACTGCGEAT .	ATGGGCCTAG	300
AGTAACAAAA	TAAGTTTGTA	ACTCTATCCA	AAGACATACA	GTCAATACAA	AACATTACGT	360
ATCTTTACAA	CAGTAATCAT	GCATTCTATG	ATGCTTCTAA			400

(2) INFORMATION FOR SEQ ID NO: 3560:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3560:

TTTAGGTTAT ACAGCATTGC	AGGCAGGATA	CTTATCAATT	ACTTATTTAA	TCATGGTGTT	06
ATTGATGATT CGAGTTGGTG	AAAAATTATT	ACAAAAAATG	GGTTCTAAGC	GACCAATGTT	120
ATTAGGTACA TTCATTGTGG	TCATTGGTAT	TGCACTTATT	TCATTAGTAT	TCTTACCAGG	180
CATATTTTAT GTTATCAGTT	GTGTCGTAGG	ATATTTATGT	TTCGGACTAG	GCTTAGGTAT	240
TTATGCAACA CCTTCTACAG	ATACAGCTAT	TTCGAATGCA	CCGTTAGATA	AAGTTGGCGT	300
TGCTTCAGGT ATTTATAAAA	TGGCTTCATC	ACTTGGTGGg	CGCATTCGGT	GTCGCAATTA	360
GTGGTGCTGT ATATGCTGGT	GCAGTTGCTG	CAACGAGCAT	TCCATACAGG	TGCGATGATT	420
GCACTTTGGG TTAACGTATT	GAATGGGGAA	TCCATGGCCA	TTTATCGCA	TTTTAATnCG	480
CGATT					485

(2) INFORMATION FOR SEQ ID NO: 3561:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 463 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3561:

AAATTATGTG	AAGTAAAAGG	AGTACGTCCA	TGCAAAATTT	AGATAAGAAT	TTTCGACaTT	60
TATCtCGTAA	AGAAAAGTTA	CaACAATTGG	TTGATAAGCA	ATGGTTATCA	GAAGAACAAT	120
TCGACATTTT	ACTGAATCAT	CCATTAATCG	ATGAAGAAGT	AGCCAATAGT	TTAATTGAAA	180
ATGTCATCGC	GCAAGGTGCA	TTACCCGTTG	GATTATTACC	GAATATCATT	GTGGACGATA	240
AGGCATATGT	TGTACCTATG	ATGGTGGAAG	AGCCTTCAGT	TGTCGCTGCA	GCTAGTTATG	300
GTGCAAAGCT	AGTGAATCAG	ACTGŒGGAT	TTAAAACGGT	ATCTTCTGAA	CGTATTATGA	360
TAGGTCAAAT	CGTCTTTGAT	GGCGTTGACG	ATACTGAAAA	ATTATCAGCA	GACATTAAAG	420
CTTTAGAAAA	GCAAATTCAT	AAAATTGCGG	ATGAGGCATA	TCC		463

- (2) INFORMATION FOR SEQ ID NO: 3562:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 643 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3562:

AATTTAAACC	CAATTGTCTG	GCAAAACGTT	TTCCTTTATA	AAAAATTTA	AACGCGTTAA	60
TTAATCTTGG	TGCnGGTCTT	TCGAACACTA	GCGATTATTT	CTTATGAATI	CAAGCTTATT	120
ТААААСТСТТ	TATTCACTCG	GTTTTGCTTG	GTAAAATCTA	TATTTTACTI	' ACTTATCTAG	180
TTTTCAATGT	ACAATTTCTT	TTTAGTCAAG	CGCTCGCATA	CTGCTTTATI	TTCAAAAAAT	240
CAAATGCTCA	TTTACAAAAG	TAAACTCCGC	TTTAATTTTT	CTTAATGCAT	TGTCTAACAA	300
CCGCTTTCTT	TAAAAAGAAT	AGATTGTCAA	GCGCTCGCAT	AAGCAATATC	CACTTTAACCA	360
AAAAATATTT	GAATGTTAAA	TAAACATTCA	AAACTGAATA	CAATATGTCA	CGTTATTCCg	420
CATCTTCTGA	AGAAGATGTT	CCGAATATAT	CCTTAGAAAG	GAGGTGATCC	AGCCGCACCT	480
TCCGATACGG	CTACCTTGtT	ACGACTTCAC	CCCAATCATT	TGTCCCACCI	TCGACGGCTA	540
GCTCCTAAAA	GGTTACTCCA	CCGGCTTCGG	GTGTTACAAA	CTCTCGTGGT	GTGACGGGCG	600
GTGTGTACAA	GACCCGGGAA	CGTATTCACC	GTAGCATGCC	TCG		643

(2) INFORMATION FOR SEQ ID NO: 3563:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3563:

GATAAATCCA	AATAGTGCAC	TATAAAAAAT	AATATCTACT	AAAGTATCTT	TATGTAATCC	60
TGCTTTAACT	AGTGCACGTT	GTAACAAAGT	AACCAAGTAA	TATTCCGACA	GCAATGATAA	120
TTCCATACCA	TCGTACACTC	AGTGGTCCTA	AGTTAAATGC	CACAGGATCT	ATATAGTTAA	180
ATACAATACC	CATTCAACCT	ACTCCTCACT	CTTATGACTG	TTCTTGATAA	TTTCTTCATT	240
TAATCTTTCA	CTAAATTCTT	CGGCCGTGTT	AATGCCCATG	ATATTTAATC	GATAGTTCAT	300
TGCAGCGACC	TCAATAATTA	CCGCAACATT	TCTACCAGGT	CTTACAGGTA	TTGGTTTTTT	360
TTAGTGGnTT	TCAGTATCTA	AAATACTTÆ	CGTCTCTTCA			400

- (2) INFORMATION FOR SEQ ID NO: 3564:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3564:					
TCGTCAGCnC nTGTCGTGAG ACGTTGGGTT AAGTCCCGCA ACGAGCG	GCAA CCCTTAAGCT 60				
TAGTTGCCAT CATTAAGTTG GGCACTCTAA GTTGACTGCC GGTGACA	AAAC CGGAGGAAGG 120				
TGGGGATGAC GTCAAATCAT CATGCCCCTT ATGATTTGGG CTACACA	ACE GCTACAATGG 180				
ACAATACAAA GGGCAGCGAA ACCGCGAnGT CAAGCAAATC CCATAAA	AGTT GTTCTCAGTT 240				
CGGATTGTAG TCTGCAACTC GACTACATGA AGCTGGAATC GCTAGTA	AATC GTAGATCAGC 300				
ATGCTACGGT GAATACGTTC CCGGGTCTTG TACACACCGC CCGTCAC	CACC ACGAGAGTTT 360				
GTAACACCCG AAGCCGGTGG AGTAACTTTT AGGAGCTAGC	400				
(2) INFORMATION FOR SEQ ID NO: 3565:					

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3565:

CAAACCATTT	GTAGCTATTT	GTAACTCTTA	TATTGATATT	GTTCCTGGAC	ATGTTCACTT	60
GAGAGAGCTT	GCAGATATAG	CTAAAGAAGC	AATTAGAGAA	GCCGGTGCCA	TTCCATTTGA	120
ATTCAATACA	ATTGGTGTTG	ATGATGGAAT	AGCTATGGGA	CATATCGGAA	TGCGATATTC	180
TCTACCATCA	CGTGAAATTA	TTGCAGATGC	AGCTGAAACT	GTAATTAACG	CTCATTGGTT	240
TGACGGCGTA	TTTTACATTC	CTAATTGTGA	CAAGATTACA	CCCGGTATGA	TTTTAGCAGC	300
CATGAGGACA	AACGTACCAG	CTATCTTTTG	CTCTGGTGGA	CCAATGAAAG	CTGGCTTATC	360
TGCACATGGA	AAAGCATTAA	CACTTTCATC	AATGTTTGAA			400

- (2) INFORMATION FOR SEQ ID NO: 3566:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 420 base pairs(B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3566:

AAATTACGTA CALATTTAAA GCTGACGGCA CTATGACTGC AGGAACATCT GCCCCACTTT 60
CTGATGGTGC AGGATTTGTA GTTTTAATGT CTGGAGATAA AGTGAAAGAA CTCGGcGTGA 120

CACCTATTGC ACGATTCGTT	GGTTTTAAGG	CAGTAGGCGT	TGACCCGAAA	ATTATGGGTA	180
TTGGGCCTGC ATATGCGATT	CCTGAAGTAT	TGTCACTCAG	CAATCTATCT	GTTGAAGACA	240
TTGATTTGAT CGAATTGAAC	GAAGCATTTG	CTTCTCAAAC	GATTGCATCT	ATTAAAGAAG	300
TAGGTCTAGA TATATCACGT	ACGAATŒGA	ATGGTGGCGC	TATTGCTTkA	GGTCATCCAT	360
TAGGTGCTAC AGGCGCaATG	TTAACCGCGC	GTTTACtTAA	TGAAATGĢGT	AGACGTCCCG	420
(O) THEODMANTON BOD C	50 TD NO. 31	- 67.			

(2) INFORMATION FOR SEQ ID NO: 3567:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3567:

TACGGGAAGT AGCTCAGCTT GGGTAGAGCA CTTGGTTTGG GACCAAGGGG TCGCAGGTTC 60

GAATCCTGTC TTCCCGATAT ACTGTAATTA TTATGGGGGC TTAGCTAGC TGGGAGAGCG 120

CCTGCTTTGC ACGCAGGAGG TCAGCGGTTC GATCCCGCTA GTCTCCACCA TATTATTTAC 180

AAACTATATA AGGCGGTGTA GCTCAGCTGG CTAGAGCGTA CGGTTCATAC CCGTGAGGTC 240

GGGGGTTCGA TCCCCTCCAC CGCCACTATT TATTAGTTGT AAAATTATAT TTAGGACCTT 300

TAGCTCAGTT GGTTAGAGCT AACGGCTCAT AACCGTTCGG TCGCAGGTTC GAGTCCTGCA 360

GGTCCCATAT AATTTTGGAG GAATACCCAG TCCGGCTGAA 400

(2) INFORMATION FOR SEQ ID NO: 3568:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3568:

TTAGCCAATC CCCATTCTGG ACGTACCTCA CTCCAATCAC TCGCAAACCG CTGCGCTTCT 60

TCCACTGGAT GATTCACACG ACCAATCGTT GGCAGTTTGT CCAAACGTTC GCGATTCGGT 120

GTTTCAGAAA TCATCGGCAT CGCGTCATTC AATGATTCAT ATGCATCTAA AGCAATAGAA 180

GATAATGTGT CTGGCACATA TACCCATGCC AACGTATCAG TAGACGTATG ATGTTCTGCT 240

ACCGCAAAAA CAGTTGTCTC TGGANTATAC ACACCTGATT GTTTTAATC TTGTCTGACA 300

TTTGGACGAT TACATATCAT CGCTAATAAC TTAGCATTNA AAACCGCTTG ATGCGCCACC 360

ACAAGCCCCA CATTTCAAGT GATGGCATGG nTGTGGGTTn	400
(2) INFORMATION FOR SEQ ID NO: 3569:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3569:	
CCCCGACCTC ACGGGTATGA ACCGTACGCT CTAGCCAGCT GAGCTACACC GCCTTATATA	60
GTTTGTAAAT AATATGGTGG AGACTAGCGG GATCGAACCG CTGACCTCCT GCGTGCAAAG	120
CAGGCGCTCT CCCAGCTGAG CTAAGCCCCC ATAATAATTA CAGTATATCG GGAAGACAGG	180
ATTCGAACCT GCGACCCCTT GGTCCCAAAC CAAGTGCTCT ACCAAGCTGA GCTACTTCCC	240
GTATAATTAA CGCGCCCGAT AGGACTCGAA CCCATAACCT CTTGATCCGT AGTCAAACGC	300
TCTATCCAAT TGAGCTACGG GCGCATATGT TTTTATTGAA AATGGTGCCG AGGACCGGAA	360
TCGAACCGGT ACGTGATCAC TCACCGCAGA TTTTAAGTCC	400
(2) INFORMATION FOR SEQ ID NO: 3570:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 542 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3570:	
CAAAACTTCC CCGTCnATGT GAATTCTTGG GGGAGATTAG GCCTGTTAC CCCCGGGTTA	60
GTTTTTATCC GTTGAGCGAT GGCCnTCCCA TGGGGACCTA CCGGATCACT AAGTCCGTCT	120
TTTCGACCCT GCTTCGACTT GTAGGTCTCG CAGTCAAGCT CCCTTATGCC TTTACACTCT	180
ATGAATGATT TCCAACCATT CTGAGGGAAC CTTTGAGCGC CTCCGTTACC TTTTAGGAGG	240
CGACCGCCCC AGTCAAACTG CCCGCCTGAC ACTGTCTCCC ACCACGATAA GTGGTGCGGG	300
TTAGAAAGCC AACACAGCTA GGGTAGTATC CCACCAGCGC CTCCACGTAA GYTAGCGCTC	360
ACGTTTCAAA GGCTCCTACC TATCCTGTAC AAGCTGTGCC GAATTTCAAT ATCAGGCTAC	420
AGTAAAGCTC CACGGGGTCT TTCCGTCTG TCGCGGGTAA CCTGCATCTT CACAGGTACT	480
ATGATTTCAC CGAGTCTCTC GTTGAGACAG TGCCCAAATC GTTACGCCTT TCGTGCGGGT	540
CG	542
(2) INFORMATION FOR SEQ ID NO: 3571:	

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 619 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3571:

ATGCCCGACC ACATGGAGCT TCCAATCCCA TTGCTCTAAC CAAT	GAGTA CTGAACCATa 60
aTaAAAATGT AAtGATGGCG GTCTCGACGG GAATCGAACC CGCG	GATCtCn GCGTGACAGG 120
CAGGCGTGTT AACCCCTACA CTACGAGACC TATAAAATAT TGCG	GGGAGGC GGATTTGAAC 180
CACCGGACTT CGGGTTATGA GCCCGACGAG CTACCGAACT GCTC	CCATCCC GCGATAATAA 240
AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGC CCGT	TAAGGC CCTGTCGGTT 300
TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC ATTA	ATTATAG GTAAATCGCT 360
ATTAATTATA AAATTAAATG GCGGTCTCGA CGGGAATCGA ACCC	CGCGATC TCCTGCGTGA 420
CAGGCAGGCG TGTTAACCGC TACACTACCA GACCATTAGT AAAAC	CGGAGG AAGAGGGATT 480
CGAACCCCCG CGAGCCGTTA AGCCCCTGTC GGTTTTCAAG ACCG	SATCCCT TCAGCCGGAC 540
TTGGGTATTC CTCCAAAATT ATATGGACCT TGCAGGACTC GAAC	CCTkCGA CCGAACGGTT 600
ATGAGCCGTT AGCTCTAAC	619

(2) INFORMATION FOR SEQ ID NO: 3572:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3572:

GGTGAAGACA	TCACGTATCA	AGAAGCATGG	GCAGATGAAG	AATATCGTGA	AGACTTAAAA	60
GCAGAATTAA	TTGATCAAGC	GGTTACTTCA	TTGAGCCACA	AGATTTATTC	AGTGCGATGA	120
TTCGTGAAAT	TGAAACGCAA	GATTTCGATA	TAGAACATCT	AGCGACGGCG	ATTCGCAAAG	180
TTGAAACATC	TACATTAGGT	GAAGAAAGTG	AAAATGACTT	TATCGGGCTG	TTCAGCGATA	240
TGGATTTGAG	TTCAACGCGA	CTAGGTAACA	ATGTCAAAGA	ACGTACTGCT	TTAATCTCTA	300
AAGTCATGGT	TAATCTTGAC	GACTTACCAT	TCGTTCACAG	TGACATGGAA	ATTGATATGT	360
TAGGTGATGC	ATATGAATTC	CTAATCGGGC	GCT T TGCGGC			400

(2) INFORMATION FOR SEQ ID NO: 3573:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3573:

CAAATCGTAA	CTCGCCGGTT	CATTCTACAA	AAGGCACGCC	ATCACCCATT	AACGGGCTCT	60
GACTACTTGT	AAGCACACGG	TTTCAGGTTC	TATTTCACTC	CCCTTCCGGG	GTGCTTTTCA	120
CCTTTCCCTC	ACGGTACTGG	TTCACTATCG	GTCACTAGAG	AGTATTTAGC	CTTAGGAGAT	180
GGTCCTCCCA	GATTCCGACG	GAATTTCACG	TGCTCCGTCG	TACTCAGGAT	CCACTCAAGA	240
GAGACAACAT	TTTCGACTAC	AGGATTATTA	CCTTCTTTGA	TTCATCTTTC	CAGATGATTC	300
GTCTAATGTC	GTCCTTTGTA	ACTCCGTATA	GAGTGTCCTA	CAACCCCAAC	AAGCAAGCTT	360
GTTGGTTTGG	GGCTCTTCCC	ATTTCGCTCG	CGGCTACTAA			400

(2) INFORMATION FOR SEQ ID NO: 3574:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1051 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3574:

TCCCTCAAAG	ATGGATGAGG	TTAATAGGTT	CGAGGTGGAA	GCATGGTGAC	ATGTGGCAGC	60
TGACGAATAc	TAATCGATCG	AAGACTTAAT	CAAAATAAAT	GTTTTGCGAc	AaaTnCnACT	120
TTTACTTACT	ATCTAGTTTT	GAATGTATAA	ATTACATTCA	TATGTCTGGT	GACTATAGCA	180
AGGAGGTCAC	ACCTGTTCCC	ATGCCGAACA	CAGAAGTTAA	GCTCCTTAGC	GTCGATGGTA	240
GTCGAACTTA	CGTTCCGCTA	GAGTAGAACG	TTGCCAGGCA	TAATATTAAT	CCACAGTAGC	300
TCAGTGGTAG	AGCTATCGGC	TGTTAACCGA	TCGGTCGTAG	GTTCGAGTCC	E CCTGTGGA	360
GCCATGGCTC	cTtGGTCAAG	CGGTTAAGAC	ACCGCCCTTT	CACGGCGGTA	ACACGGGTTC	420
GAGTCCCGTA	GnAGTCATTA	TTTTGGAGAA	TTAGCTCAGC	TGGGAGAGCA	TCTGCCTTAC	480
AAGCAGAGGG	TCGGCGGTTC	GAACCCGTCA	TTCTCCACCA	TTTTGATTAT	TAAATTATAT	540
GAATAAGCTG	GAGGGGTAGC	GAAgTGGCTA	AACGCGGCGG	ACTGTAAATC	CGCTcCTTCG	600
GGTTCGGCAG	TTCGAATCTG	CCCCCTCCA	CCATCTATAT	ATTGGGCTAT	AGCCAAGCGG	660
TAAGGCAACG	GACTTTGACT	CCGTCACTCG	TTGGTTCGAA	TCCAGCTAGC	CCAGCCATTA	720
GAGCCATTAG	CTCAGTTGGT	AGAGCATCTG	ACTTTAATC	AGAGGGTCAG	AGGTTCGAAT	780

CCTCTATGGC	TCACTACTTG	CACTTTCCAT	TTTTGGGAAG	TGCTTTTTT	TAGGTTCTcC	840
ACCAAATGTG	GTGGGtATAT	AATTTAAAGA	ACTATTTTA	AAATACAACT	TTTAGAGCTT	900
TTATTATTAG	GCGGCCAGTC	CATTATTGGG	CTTGGTTGTC	TTCTTTTTT	CTCCTTTGA	960
CAAGCTGAAA	ATCATCATTA	TACGTGCtTA	AAGTGTGAAA	TTTCTGTAAC	CAAAAGAATn	1020
CACTTGATTA	ATTnnATCTA	TATAATGCCT	С			1051

(2) INFORMATION FOR SEQ ID NO: 3575:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 476 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3575:

GTGGAGCGCT TAGAAGTGAG AATGCAAGTG	TGAgTAGCGA AAGACGGGT	G AGAATCCCGT	60
CCACCGATTG ACTAAGGTTT CCAGAGGAAG	GCTCGTCCGC TCTGGGTTAG	TCGGGTCCTA	120
AGCTGAGGCC GACACGTATG GCGATGGATA	ACAGGTTGAT ATTCCTGTA	CACCTATAAT	180
CGTTTTAATC GATGGGGGGA CGCATAGGAT	AGGCGAcGTG sCGATTGGA	TGCACGTCTA	240
AGCAGTAAGG CTGAGTATTA GGCAAATCCG	GTACTGTTA AGGCTGAGCT	GTgATGGGGA	300
GAAGACATTG TGTCTTCGAG TCGTTgATTT	CACACTGCCG AGAAAAGCC	CTAGATAGAA	360
AATAGGTGCC CGTaCCGCAA AaCCGACACA	GGTAGTCCAA GATGnGAAT	CTAAnGTGAA	420
nCGAGCGAAC TCTCGTTAAG GAACTCGGCC	AAAATGGACC CCGTAAACT	CCGGAA	476

(2) INFORMATION FOR SEQ ID NO: 3576:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3576:

TTTGTTCCTT	TTTTAATTTA	TATATTTAAA	ATACACATAT	TCAAGAGCTC	GAGATATAAG	60
TCAATGTACT	AGGCACACAA	TTTAATATTG	ACAGTAATTA	ACCGAACGAA	AATGCGCCCC	120
GGGGCCCCAA	CATAGAGAAT	TTCGAAAAGA	AATTCTACAG	ACAATGCAAG	TTGGCGGGGC	180
CCCAACATAG	AAGCTGGCCA	ATAGTTAGCT	TTCAATAATG	TGCAAGTTGG	GGTAAGGGCC	240
CCAACACAGA	AGCTGGCCAA	TAGTCAGCTT	TCAATAATGT	GCAAGTTGGG	GTAAGGGCCC	300

CAACACAGAG AATTTCGAAA AGAAATTCTA CAGACAATGC AAGTTGGCGG GGCCCCAACA	360
CAGAAGCTGG GCCAATAGTC AGCTTTTCCA ATAATGTGC	400
(2) INFORMATION FOR SEQ ID NO: 3577:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3577:	
TGCATCTTCA CAGGTACTAT GATTTCACCG AGTCTCTCGT TGAGACAGTG CCCAAATCGT	60
TACGCCTTTC GTGCGGGTCG GAACTTACCC GACAAGGAAT TTCGCTACCT TAGGACCGTT	120
ATAGTTACGG CCGCCGTTTA CTGGGGCTTC GATTCGTAGC TTCGCAGAAC TAACCATCC	180
TCTTAACCTT CCAGCACCGG GCAGGCGTCA GCCCTATACA TCACCTTACG GTTTAGCAGA	240
GACCTGTGTT TTTGATAAAC AGTCGCTTGG GCCTATTCAC TGCGGCTCTT CTGGGCGTTA	300
ACCCTAAAGA GCACCCCTTC TCCCGAAGTT ACGGGGTCAT TTTGCCGAGT TCCTTAACGA	360
GAGTTEGCTC GCTCACCTTA GAATTCTCAT CTTGACTAAC	400
(2) INFORMATION FOR SEQ ID NO: 3578:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3578:	
TAACTTAACA CGACTTCTTA AGTCATTTAG TTTTAATGTT TGATGTGTTT CTGCTAAACC	60
AATCTCCCAA GGAACACCGG CATGCTGAAT ACTCGTTTTG GGTGAAGCCC TGTACCACCA	120
TCGTAACCAC TGATGACAAT TTTATCTGCA AATCTTTTG CCACCCCAGA TGCAATGGTA	180
CCAACACCTG TTTTCGAAAC TAATTTTACC GCGATATCTG CATCTTTATT CGCATTTTTC	240

- (2) INFORMATION FOR SEQ ID NO: 3579:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid

AGTACCAGGT AATTGGACCA CCTTCACCAG GCTTTGCACC

300

400

360

AAATCATGTA TCAGTTGCGC TAAATCTTCT ATTGAATAAA TATCATGATG TGGCGGTGGT

GAAATCAGAC CGATACCTGG CGTTGGACCC TCTTGTCTTC GCAATCCACG GATATACCT

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3579:

AGCTACACCG CCTTATATAG TTTGTAAATA ATATGGTGGA GACTAGCGGG ATCGAACCGC 60
TGACCTCCTG CGTGCAAAGC AGGCGCTCTC CCAGCTGAGC TAAGCCCCCA TAATAATTAC 120
AGTATATCGG GAAGACAGGA TTCGAACCTG CGACCCCTTG GTCCCAAACC AAGTGCTCTA 180
CCAAGCTGAG CTACTTCCCG TATAATTAAC GCGCCCGATA GGAGTCGAAC CCATAACCTC 240
TTGATCCGTA GTCAAACGCT CTATCCAATT GAGCTACGGG CGCATATGTT TTTATTGAAA 300
ATGGTGCCGA GGACCGGAAT CGAACCGGTA CGTGACACT CACCGCAGGA TTTTAAGTCC 360
TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATAAAAAAT 400

(2) INFORMATION FOR SEQ ID NO: 3580:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3580:

ACGTAAATAA CCATAACGAC GTGCCTCAAA GGCATTTGTA GAGACTTTCG CAAATGCGAT 60

ATTCGTCAGT ACTTTTGTCA TGGAAGCTTG TTTGTCATCA AACTTATGCG ATGTCGTAA 120

TATGCGATCA GCCATTTCTG CAAGGCCACC GCCACTCGGT AATAAGCCAA CACCTGCTTC 180

AACAAGACCG ATATATGTTT CACTTGCAGC GACAACAATA GGTGAGTAAA GTACAAGCTC 240

ACAGCCACCG CCTAAGGCAC GACCTTGAAC AGCTGTGACT ACTGGTTTCA AACTATACTT 300

CAAACGATTA AAGCTATAAT GTAATTTATC AATTGATTGT GCACGACATC ATCTACAAGA 360

CCGTCTTCCA TGCGCCTTTT TCCATTAAGA AAGGGTTAGC 400

(2) INFORMATION FOR SEO ID NO: 3581:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3581:

ATGTCATTGT TGGTACGGCT TTTCCAGAAG GATTACAAGG CCAAAACATT GCACGAACGA 60

TTGCATTGCG TGCGGATTAT CTGACACGGT ÆCGGGTCAA ACAG	TGAATC GCTACTGCTC 120
ATCAGGATTA CAAACCATGC GATTGCAGCC AATCAAATTA TGGC	ETGGTCA AGGAGATATA 180
CTTGTAGCTG GTGCGTTGAA TTGATGAGTG CCGTACCAAT GGGT	CGGCAAC GAGCCCACAA 240
ACAATCCAAC CTTACAATAT GATGATATAG GTGCGTCATA TCCT	CATGGGT TTAACTGTG 300
AAAATGTAGC ATCCCAATTT GACGTATCAC GCGAAGATCA AGAT	GCTTAT GCTGTCAGAA 360
GTCATCAACG TGCCTATGAC GCACAACGTG ATGGGTCCGG	400

(2) INFORMATION FOR SEQ ID NO: 3582:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3582:

AACTCGTTGC GCTCTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT 60
TTTTCTTTGT GTTTACTTTT TATTTTGACG TTTTAGACAT AAAAAAAAGA GACCTTGCGG 120
TCTCAATGCG GCTCATCGCA TCCATTTTTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT 180
AAGTTGGCTA CCATCGACGC TAAGAACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT 240
CCTCTTCTTC GGCTCTCGCT TACTCATTTA GCCTACTAA ACTCGTTGCG CTCTTTTCTC 300
GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTGCTTTTT 360
ATTTTGACGT TTTAGACATA AAAAAAAGAG ACCTTGCGGT 400

(2) INFORMATION FOR SEQ ID NO: 3583:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3583:

AAGCAGGCGC TCTCCCAGCT GAGCTAAGCC CCCAAATAGG TATTAAATTA ATGTGGGCC 60
TAAGTGGACT CGAACCACCG ACCTCACGCT TATCAGGCGT GCGCTCTAAC CAGCTGAGCT 120
ATAGGCCCAT TAATTTGAAT GAACAAACAT TCAAAACTGA ATACAATATG TCACGTTATT 180
CCGCATCTTC TGAAGAAGAT GTTCCGAATA TATCCTTAGA AAGGAGGTGA TCCAGCCGCA 240
CCTTCCGATA CGGCTACCTT GTTACGACTT CACCCCAATC ATTTGTCCCA CCTTCGACGG 300
CTAGCTCCTA AAAAGGTTAC TCCACCGGCT TCGGGTGTTA CAAACTCTCG TGGTGTGACG 360

- (2) INFORMATION FOR SEQ ID NO: 3584:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3584:

ACTTATTTGG	CGATATTTTA	AGTGATGAAG	CTTCAGTGAT	TCCTGGTTCA	CTTGGTTTAT	60
CACCTTCTGC	TAGTTTTAGT	AACGATGGTC	CAAGATTGTA	TGAGCCTATT	CATGGATCAG	120
CACCAGATAT	TGCAGGTAAA	AACGTTGCCA	ATCCATTTGG	AATGATTCTA	TCTTTAGCGA	180
TGTGTTTACG	TGAAAGCTTA	AATCAACCAG	ATGCTGCAGA	TGAATTAGAA	CAACAATTT	240
ATAGCATGAT	TGAACATGGG	CAAACGACAG	CAGATTTAGG	CGGCAAATTG	AATACTACTG	300
ATATTTTCGA	AATTCTATCT	CAAAAATTGA	ATCACTAAGG	GGGGAGATGT	AAATGGGGTC	360
AAACATTATT	TGACAAnGTG	TGGGACAGAC	ATGTGTTATA			400

- (2) INFORMATION FOR SEQ ID NO: 3585:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3585:

ACTGATGACA	ATTTTATCTG	CAAATGCTTT	TGCCACCCCA	GATGCAATGG	TACCAACACC	60
TGTTTTCGAA	ACTAATTTTA	CCGCGATATC	TGCATCTTTA	TTCGCATTTT	TCAAATCATG	120
TATCAGTTGC	GCTAAATCTT	CTATTGAATA	AATATCATGA	TGTGGCGGTG	GTGAAATCAG	180
ACCGATACCT	GGCGTTGACC	CTCTTGTCTT	@CAATCCAC	GGATATACCT	TAGTACCAGG	240
TAATTGACCA	CCTTCACCAG	GCTTTGCACC	TTGCGCAACT	TTAATTTGAA	TTTCTTTGGG	300
CATGTTGTAA	ATAATCACTA	GTTACACCAA	AACGCCCAGA	AGCAACTTGT	TTAATCGCAC	360
TTACTTTGGT	GGCTTCCATC	AACTTGTACT	TCATAACGGT			400

- (2) INFORMATION FOR SEQ ID NO: 3586:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENC	CE DESCRIPTION S	SEQ ID NO: 3	586:			
TACAAGTATT ACCAT	TATCT CnAGAGGATT	CTAGATAAGG	GGCATGGATC	ATTTGTCTTC	60	
TTATGAATTT GAGCCA	AGATA AAGAATCTAT	CTTAAGTGTA	ATCTTGACCT	CAATATGTTG	120	
AGAGTTTGAT TTACGO	GAACA ATATTAGACG	CAAAAGCAAG	TGAGCATGCA	ACACGTATGA	180	
CTGCGATGAA AAATGC	CCACT GATAATGCAA	CTGAACTTAT	TGATGACTTA	TCATTAGAAT	240	
ATAACAGAGC GAGACA	AAGCA GAAATTACGC	AACAAATTAC	TGAAATTGTT	GGTGGTTCCG	300	
CAGCGCTTGA ATAATA	ATTTA AnGGAGGAAA	ATAGCATGGG	AATTGGCCGT	GTACTCAAGT	360	
TATGGGTCCT GTAAT	IGATG TTCGATTTGA	ACATAACGAG			400	
(2) INFORMATION	FOR SEQ ID NO: 3	587:				
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double						

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3587:

(D) TOPOLOGY: linear

AAGCAGGCGC	TCTCCCAGCT	GAGCTAAGCC	CCCATAATAA	TTACAGTATA	TCGGGAAGAC	60
AGGATTCGAA	CCTGCGACCC	CTTGGTCCCA	AACCAAGTGC	TCTACCAAGC	TGAGCTACTT	120
CCCGTATAAT	TAACGCGCCC	GATAGGAGTC	GAACCCATAA	CCTCTTGATC	CGAGTCAAA	180
CGCTCTATCC	AATTGAGCTA	CGGGCGCATA	TGTTTTTATT	GAAAATGGTG	CCGAGGACCG	240
GAATCGAACC	GGTACGTGAT	CACTCACCGC	AGGATTTTAA	GTCCTGTGCG	TCTGCCAGTT	300
CCGCCACCCC	GGCACTATAA	AAATGGAGCA	GAAGACGGGA	TTCGAACCCG	CGACCCCAAC	360
CTTGGCAAGG	TTGTATTCTA	CCGCTGAACT	ACTTCTGCAT			400

(2) INFORMATION FOR SEQ ID NO: 3588:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3588:

TACTATTGAC ATGTGTGAAC CCTATGTCCG ATTATTTCGC GACCTATTTC CTAATGCAGC 60

TATTATTTTT GACAGATTCC ATATCGTTCA ACATTTAAAT AGAGAACTTA ATAAGTATCG 120

TGTACAAGTT ATGAATGAAT	ACCGTAATAA	AAAAGGACCT	GATTATACAA	TTTTTAAGAA	180
TAACTGGAAA GTCCTATTGA	TGGATACTAG	TAAAACCATA	TTTAGTAAAT	ACAGATGGAA	240
TAAATCTTTT AAGGGCTTAT	AAACGCTCAT	CTGACATTGT	AGAATTCATG	CTTTCAAAAG	300
ACGATATACT ACGACACTCC	TACGAACTTG	TCCAGGGATT	ACGAAAAGAC	CTAAGGTAT	360
GTAATTGGGC CTAAATTTAT	TAATCGTTTA	AATTCCGTTA			400

(2) INFORMATION FOR SEQ ID NO: 3589:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3589:

AGAGCGAACG GACGAGAAGC TTGCTTCTCT GATGTTAGCn GCGGACGGGT GAGTAACACG	60
TGGATAACCT ACCTATAAGA CTGGGATAAC TTCGGGAAAC CGGAGCTAAT ACCGGATAAT	120
ATTTTGAACC GCATGGTTCA AAAGTGAAAG ACGGTCTTGC TGTCACTTAT AGATGGATCC	180
GCGCTGCATT AGCTAGTTGG TAAGGTAACG GCTTACCAAG GCAACGATGC ATAGCCGACC	240
TGAGAGGGTG ATCGGCCACA CTGGAACTGA GACACGGTCC AGACTCCTAC GGGAGGCAGC	300
AGTAGGGAAT CTTCCGCAAT GGGCGAAAGC TACGGAGCA ACGnCGCGTG AGTGATGAAG	360
GTCTTCGGAT CGTAAAACTC TGTTATTAGG GAAGAACATA	400

(2) INFORMATION FOR SEQ ID NO: 3590:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 509 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3590:

GTTAgGAGAG	CGTTCTAAGG	GCGTTGAAGC	ATGATCGTAA	GGACATGTGG	AGCGCTTAGA	60
AGTGAGAATG	CCGGTGTGAG	TAGCGAAAGA	CGGGTGAGAA	TCCCtCCACC	E TTGACTAA	120
GGTTTCCAGA	GGAAGGCTCG	TCCGCTCTGG	GTTAGTCGGG	TCCTAAGCTG	AGGCCGACAg	180
gTAaGGCGAT	GGATAACAGG	TTGATATTCC	TGTACCACCT	ATAATCGTTT	TaATCGATGG	240
GGGGACGCAT	AGGATAGGCG	AAcGTGcGAT	TGGATTGCAC	GTCTAAGCAG	TAAGGCTGAG	300
TATTAGGCAA	ATCCGGTACT	CGTTaAGGCT	GAGCTGTGAT	GGGGAGAAGA	CATTGWGTCT	360

TCGAGTCGTT	GATTTCACAC	TGCCGAGAAA	AgCCTCTAGA	TAGAAAATAG	GTGCCCGTAC	420
CGCAAACCGA	CACAGGTAAT	CCAAGATGAG	AATTCTAAGG	TGAGCGAGCG	AACTCTCGTT	480
AAGGAACTCG	GCAAAATGAC	CCCGTAACT				509

(2) INFORMATION FOR SEQ ID NO: 3591:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3591:

ATTTCTTATG	AATTCAAGCT	TATTTAAAAC	TCTTTATTCA	CTCGGTTTTG	CTTGGTAAAA	60
TCTATATTTT	ACTTACTTAT	CTAGTTTTCA	ATGTACAAAT	AATGGTGGAG	ACTAGCGGGA	120
TCGAACCGCT	GACCTCCTGC	GTGCAAAGCA	GGCGCTCTCC	CAGCTGAGCT	AA G CCCCAA	180
ATAGGTATTA	AATTAATGGT	GGGCCTAAGT	GGACTCGAAC	CACCGACCTC	ACGCTTATCA	240
GGCGTGCGCT	CTAACCAGCT	GAGCTATAGG	CCCATTAATT	TGAATGAACA	AACATTCAAA	300
ACTGAATACA	ATATGTCACG	TTATTCCGCA	TCTTCTGAAG	AAGATGTTCC	GAATATATCC	360
TTAGAAAGGA	GGTGATCCAG	CCGCACCTTC	CGATACGGCT			400

(2) INFORMATION FOR SEQ ID NO: 3592:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 440 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3592:

TGGGnAACGC	AACATCCTTT	TCCAACTTAA	CATATATTT	GGGACCTTaG	CTGGTGGTCT	60
GGGCTGTTTC	CCTTTCGAAC	ACGGACCTTA	TCACCCATGT	TCTGACTCCC	aAGTTAAATT	120
AATTGGCATT	CGGAGTTTGT	CTGAATTCGG	TAACCCGAGA	GGGGCCCCTC	GTCCAAACAG	180
TGCTCTACCT	CCAATAATCA	TCACTTGAGG	CTAGCCCTAA	AGCTATTTCG	GAGAGAACCA	240
GCTATCTCCA	GGTTCGATTG	GAATTTCTCC	GCTACCCTCA	GTTCATCCGC	TCACTTTTCA	300
ACGTAAgTCG	GTTCGGTCCt	CCATTCAGTG	TTACCTGAAC	TTCAACCTGa	CCAAGGTAG	360
ATCACCTGGT	TTCcGsGTsT	ACGACCAAAT	AsTAAACGCC	CTATTCAGAC	TCGCTTTCGC	420
TAnGGCTCCA	CATTACTGGn					440

(2) INFORMATION FOR SEQ ID NO: 3593:

(i)	SEOUENCE	CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3593:

TAAACGAACC	AATTTTATTT	GGTGCACCAC	TAGTATTGAA	TCCTGTGTTC	TTTATTCCAT	60
TTGTATTAGC	ACCAATTGTT	AACGTATGGA	TTTTCAAACT	TTTCGTTGAA	GTGTTAGGAA	120
TGAATAGTTT	TAGTGTGAAT	TTACCTTGGA	CAACACCAGG	TCCATTGGGC	ATTATCATGG	180
GTACAGGTTT	TGGTTTATGG	TCATTCGTAC	TAGCTATTAC	TTTGATTGTT	GTAGATATTA	240
TTATnTACTA	CCCATTCCTA	AAAGTTTATG	ATAGTGAAAT	TCTTGATGAA	GAAGAAGGAC	300
GTAAAGAAAG	TAATTCAGAT	TTAAAAGAAA	AAGTTGCAGC	AAACCTTTGA	TACGAAAAA	360
GCTGATTCAA	TTTTAGCGGC	AAGTGGTGTA	TCAGACGATG			400

(2) INFORMATION FOR SEQ ID NO: 3594:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 409 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3594:

AAGGGAATCG	AATTTTCTTT	CTCTTCCTCC	GGGTACTAAG	ATGTTTCAGT	CTCCGGGTG	60
TGCCTTCTGa	TATGCTATGT	ATTCACATAT	CGATAACATG	ACATAACTCA	TGCTGGGTTT	120
CCCCATTCGG	AAATCTCTGG	ATCAAAGCTT	aCTaCAGCTC	CCCAAAGCAT	ATCGTCGTTA	180
GTAACGTCCT	TCATCGGCTT	CTAGTGCCAA	GGCATCCACC	GTGCGCCCTT	AATAACTTAA	240
TCTATGTTTC	CACCATTTTT	ATAAGTCAAA	CGCTCACATA	CGGCTTCGTT	TTCATTATTT	300
TAAATGCTCA	TTTACATAAG	TAAACTCTGC	TTTAAAATTAA	TTTAACTCAT	TGTCTGCTAA	360
ACGTTTTCTT	TTATAAAAAG	ATTTAAAcGC	GTTAtTAATC	CTCTCGCTC		409

(2) INFORMATION FOR SEQ ID NO: 3595:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3595:

AATATAAGCC CTGGATCATA	CATGACCTGT	ATTTGGGCAA	TCCCTTCTGC	TACATCTTCT	60
GCCCACTCAT TCAATATTTG	TTTTGCAATA	TCATCACCTT	CTTCAGCTGC	TTCAAACAAT	120
ACTGGCACAT GTGTGCTTCT	CGTAAATCCT	CCGGCAATCA	TGCGCTTTTT	CAATGCACTC	180
GTTGCAGCAC GTTGCTCAAA	CGTTGTATTT	TCAGTTGGAC	GATACAATAA	AT@CCAACT	240
TCATTTGCCT TATGAAGCTC	ACCATTATCA	ATATGACCTT	GGATTATTCT	TGTACGCACC	300
CCCAATGGCC TGGTACCAAG	CGTCCATACA	AAAGATCCGT	TCTGGCTTGG	ATATTGGATG	360
GTAATTTCCA ATTCGGCCTA	GTTAATGGCA	GCGGTTTTAA			400

(2) INFORMATION FOR SEQ ID NO: 3596:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 596 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3596:

TCCGTTGCCT TACCGCTTGG CTATAGCCAA TATATAGATG GTGGAG	GGGGG GCAATTCGAA 60
CTGCCGAACC CGAAGAGCGG ATTTACAGTC CGCCGCGTTT AGCCAC	CTTCG CTACCCTCCA 120
GCTTATTCAT ATAATTTAAT AATCAAAATG GTGGAGAATG ACGGGT	TTCGA CCGCCGACCC 180
TCTGCTTGTA AGGCAGATGC TCTCCCAGCT GaGCTAATTC TCCAAAA	ATAA TGACTCCTAC 240
GGGACTCGAA CCCGTGTTAC CGCCGTGAAA GGGCGtGTCT TAACCG	GCTTG ACCAAGGAGC 300
CATGGCTCCA CaGGTAGGAC TCGAACCTAC GACCGATCGG TTAACA	AGCCG ATAGCTCTAC 360
CACTGAGCTA CTGTGGaTTA ATATTATGCC TGGcAACGTT CTACTC	CTAGC GGAACTAAG 420
TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCAT	GGGA ACAGGTGTGA 480
CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATTTAT ACATTC	CAAAA CTAGATAGTA 540
AGTAAAAGTG ATTTTGCTTC GCAAAACATT TATTTTGATT AAGTCT	TTCGA TCGATT 596

(2) INFORMATION FOR SEQ ID NO: 3597:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3597:

TCATCTTGAG GGGGGCTTCA TGCTTAGATG CTTTCAGCAC TTATCCCGTC CACACATAGC 60

TACCCAGCTA	TGCCGTTGGC	ACGACAACTG	GTACACCAGA	GGTATGTCCA	TCCCGGTCCT	120
CTCGTACTAA	GGACAGCTCC	TCTCAAATTT	CCTACGCCCA	CGACGGATAG	GGACCGAACT	180
GTCTCACGAC	GTTCTGAACC	CAGCTCGCGT	ÆCGCTTTAA	TGGGCGAACA	GCCCAACCCT	240
TGGGACCGAC	TACAGCCCCA	GGATGCGATG	AGCCGACATC	GAGGTGCCAA	ACCTCCCCGT	300
CGATGTGAAC	TCTTGGGGGA	GATAAGCCTG	TTATCCCCGG	GGTAGCTTTT	ATCCGTTGAG	360
CGATGGCCCT	TCCATGCGGA	ACCACCGGAT	CAATAAAGTC			400

(2) INFORMATION FOR SEQ ID NO: 3598:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 397 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION SEQ ID NO: 3598:

AACCAACGGC	AGCAACTACA	TGACCTAATT	CTTGTGCTGA	CTCTACATTT	AGTAGCTCTA	60
ATGAAGCTTT	Acaattggta	ATACTTTTGT	ACCACCGCCA	ACGATTGCCA	ATGTCATAGG	120
CACTTCAATT	GTACCAATCA	ATCGTTGACG	ATCTTGATCG	TAACGCCATG	TAGCAATACC	180
ACGATACTGT	CCGTCACGAC	TCGCGTATGC	ATGCGCACTT	GCTTCTGCAC	CACGCGTATC	240
ATTTCCTGTT	GCTAAAACAA	CAGCATGTAT	GCCATTCATA	ACACCTTTAT	TATGTGTTGC	300
TGCACGATGA	ATATCTACTT	GGGCCAATAC	AGAAGCACGT	TCCATcGTTT	GcaACCTCTT	360
CTCCAGTTCT	CTCGCCCCTT	GGCTAAATCT	TTACAT			397

(2) INFORMATION FOR SEQ ID NO: 3599:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599:

AACCCTTGGG	ACCGACTACA	GCCCCAGGAT	GCGATGAGCC	GACATCGAGG	TGCCAAACCT	60
CCCCGTCGAT	GTGAACTCTT	GGGGGAGATA	AGCCTGTTAT	CCCCGGGGTA	GCTTTTATCC	120
GTTGAGCGAT	GGCCCTTCCA	TGCGGAACCA	CCGGATCACT	AAGTCCGTCT	TT G ACCCTG	180
CTCGACTTGT	AGGTCTCGCA	GTCAAGCTCC	CTTATGCCTT	TACACTCTAT	GAATGATTTC	240
CAACCATTCT	GAGGGAACCT	TTGAGCGCCT	CCGTTACCTT	TTAGGAGGCG	ACCGCCCCAG	300

TCAAACTGCC CGCCTGACAC TGTCTCCCAC CACGATAAGT GTGCGGGTTA GAAAGCCAAC	360
ACAGCTAGGG TAGTATCCCA CCAGCGCCTC CAACGTAAGC	400
(2) INFORMATION FOR SEQ ID NO: 3600:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3600:	
ATCTGAATCT GAGTCGTTGT CTGAGTCCGA ATCGCTATCT GAATCTGAGT CGCTATCTGA	60
GTCTGAGTCG CTATCTGAAT CTGAGTCGCT GTCTGAATCT GAATCACTGT CTGAGTCTGA	120
GTCGCTGTCT GAGTCTGAAT CGCTGTCAGA ATCTGAGTCG CTATCTGAGT CTGAATCTGA	180
ATCACTGTCT GAGTCCGAAT CGCTATCTGA ATCTGAATCG CTATCTGAGT CTGAGTCGCT	240
ATCCGAATCT GAGTCGCTAT CTGAGTCTGA GTCGCTATCC GAGTCTGAAT CGCTGTCTGA	300
GTCTGAGTCG CTGTCTGAAT CTGAATCGCT ATCTGAGTCT GAGTCGCTGT CTGGATCGC	360
GGTCTGGAAT CTGAnTCGCT AACTGAAATC TGAGTCGCTA	400
(2) INFORMATION FOR SEQ ID NO: 3601:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEOUENCE DESCRIPTION: SEO ID NO: 3601:	
ATTTAATACC TATTTGGGGG CTTAGCTCAG CTGGGAGAGC GCCTGCTTTG CACGCAGGAG	60
GTCAGCGGTT CGATCCCGCT AGTCTCCACC ATTATTTGTA CATTGAAAAC TAGATAAGTA	120
AGTAAAATAT AGATTTTACC AAGCAAAACC GAGTGAATAA AGAGTTTTAA ATAAGCTTGA	180
ATTCATAAGA AATAATCGCT AGTGTTCGAA AGAACATCCA CAAGATTAAT AACGCGTTTA	240
AATCTTTTTA TAAAAGAACG TAACTTCATG TTAACGTTTG ACTTATAAAA ATGGTGGAAA	300
CATAGGITAA GTTATTAAGG GCGCACGGTG WATGCCTTG GCACTAGAAG CCGATGAAGG	360
CALABOLIAN GITATIANG GEGENACETE WATECETTE WATERCALE	360

- (2) INFORMATION FOR SEQ ID NO: 3602:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 396 base pairs
 - (B) TYPE: nucleic acid

GNCGTTACTA ACGACGATAT GCTTTGGGGA GCTGTAAGTA

400

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3602:

GCTGTCTGAG	TCGGAATCAC	TGTnGGAGTC	AGAATCGCTG	TCTGAGTCGG	AATCACTGTC	60
GGAATCTGAA	TCGCTATCTG	AATCTGAATC	GCTATCTGAA	TCCGAGTCAC	GTCTGAGTC	120
AGAATCGnTA	TCTGAATCTG	AGTCACTGTC	GGAATCTGAG	TCACTGTCTG	AGTCAGAATC	180
GCTATCTGAA	TCCGAGTCAT	TGTCTGAGTC	GGAATCGCTC	GCTGAGTCGG	AATCGCTTGC	240
TGAATCTGAA	TCACTCGCTG	AGTCTGAATC	ACTTGCTGAA	TCTGAATCAC	TCGCTGAATC	300
TGAACCACTA	TCTGATGTAG	GAATCACTAC	CCGAATCTGA	AnCGCTATCT	GAATAAGAAT	360
CGCTGCCAGA	TCTGAACCTG	GGGTCAGAAT	CTGAAT			396

(2) INFORMATION FOR SEQ ID NO: 3603:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 529 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3603:

TTTCTTATCT	GTAATTTTAT	CGTAAGATTT	TTTCGCAATG	AGATTTGGAT	CGTnTTTGTC	60
CACTACAATA	TCTAATAGTT	TTACTTTÆG	TCCAGCATTC	ACAAAAAGTG	CTGCCAGTTG	120
AGCGCCCATT	GTGCCTGCGC	CAAGAACGGT	TACTTTATTA	ATTGTCATAG	TGATTCCTCC	180
AATTTAGTTG	AGGATAAGAT	AACCATTAAG	ATAATTGGAA	TAACGTTGCT	ATTTTATAAA	240
ATTAATTAAG	TATCTTTGAC	AGTCATCTTA	GCCTCTTATT	TAAGGaAAAA	GCTTATGCT	300
TAAAATAAGT	CTTTTTTAGT	GAAATTAATG	CATCTCATAT	AATTATTT G C	TATTTATACG	360
AAAGCmGaAT	CTCCAGTCaA	AGCGCGTCCA	ATTACTAAGG	CATTAATTTC	ATGTGTACCT	420
TCGTACGTGT	AAATCGCTTC	TGCATCAGAG	AAGAAACGTG	CAATATCATA	ATCGTCAGCT	480
AGTATGCCAT	TACCACCTGT	AATACCGCGG	CCCATAGCTA	CTnTCTCAC		529

(2) INFORMATION FOR SEQ ID NO: 3604:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 399 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3604:

CACAAGATAA GCATTGTAGA TGTGGATGCT TTAACTGGGC AAGCGATTGG TCGTCCTAAA	60
ACAGGTACAT ATGCGCTATC TGACCTAGTC GGTTTAGATA TTGCAGTGTC TGTAATTAAA	120
GGCATGCAAC AAGTACCTGA AGAAACACCTTATTTCATG ATGTCAAAAT TGTAAATACG	180
TTGTTTGACA ATGGCGCACT CGGACGTAAA ACGAAACAAG GATTTTACAA AAAGGATAAA	240
GAAACTAAAG CTCGACTTGT TTACGATGTT GAAAAACAAG ATTATGTACC TGTATCGCAA	300
CCACAATTAC CAATTTTAAA TGAATTTAAT AAAGACTTAG TGCaTAACCT TGATACATA	360
TTCCAATGCG CAAGACGAGC GGGGACTATT TTTATGGGG	399

(2) INFORMATION FOR SEQ ID NO: 3605:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3605:

ATCACTTGAG	GCTAGCCCTA	AAGCTATTTC	GGAGAGAACC	AGCTATCTCC	AGGTTCGATT	60
GGAATTTCTC	CGCTACCCTC	AGTTCATCCG	CTCACTTTTC	AACGTAATCG	GTTCGGTCCT	120
CCATTCAGTG	TTACCTGAAC	TTCAACCTGA	CCAAGGGTAG	ATCACCTGGT	TTCGGGTCTA	180
CGACCAAATA	CTAAACGCCC	TATTCAGACT	CGCTTTCGCT	ACGGCTCCAC	ATTTACTGCT	240
TAACCTTGCA	TCAAATCGTA	ACTCGCCGGT	TCATTCTACA	AAAGGCACGC	CATCACCCAT	300
TAACGGGCTC	TGGACTACTT	GTAAGCACAC	GTTTCAGGT	TCTATTTCAC	TCCCCTTCCG	360
GGGTGGCTTT	TCACCTTTCC	CTCACGGTAA	TGGGTTCACT			400

(2) INFORMATION FOR SEQ ID NO: 3606:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3606:

AAATCCTGCG GTGAGTGATC ACTAACCCGG TTCGATTCCG GTCCTCGGCA CCATTTTCAA 60
TAAAAACATA TGCGCCCGTA GCTCAATTGG ATAGAGCGTT TGACTACGGA CAAGAGGTT 120
ATGGGTTCGA CTCCTATCGG GCGCGTTAAT TATACGGGAA GTAGCTCAGC TTGGTAGAGC 180
ACTTGGTTTG GGACCAAGGG GTCGCAGGTT CGAATCCTGT CTTCCCGATA TACTGTAATT 240

ATTATGGGGG	CTTAGCTCAG	CTGGGGAGAG	CGCCTGCTTT	GCACGCAGGA	GGTCAGCGGT	300
TCGATCCCGC	TAGTCTCCAC	CATATTATTT	ACAAACTATA	TAAGGCGGTG	TAGCTCAGCT	360
GGCTAGAGCG	TACGGTTCAT	ACCCGTGAGG	TCGGGGGTTC			400

- (2) INFORMATION FOR SEQ ID NO: 3607:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3607:

GGGTGTGCTT C	TGATATGCT	ATGTATTCAC	ATATCGATAA	CATGACATAA	CTCATGCTGG	60
GTTTCCCATT C	GGAAATCTC	TGGATCAAAG	CTTACTTACA	GCTCCCCAAA	GCATATCGTC	120
GTTAGTAACG T	CCTTCATCG	GCTTCTAGTG	CCAAGGCATC	CACCGTGCGC	CCTTAATAAC	180
TTAATCTATG T	TTCCACCAT	TTTTATAAGT	CAAACGTTAA	CATGAAGTTA	CGTTCTTTTA	. 240
TAAAAAGATT T.	AAACGCGTT	ATTAATCTTG	TGAGTGTTCT	TTCGAACACT	AG G ATTATT	300
TCTTATGAAT T	CAAGCTTAT	TTAAAACTCT	TTATTCACTC	GGTTTTGCTT	GGTAAAATCT	360
ATATTTTACT T	ACTTATCTA	GTTTnCAATG	TACAAATAAT			400

- (2) INFORMATION FOR SEQ ID NO: 3608:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3608:

TAGTTTTCAA TGTACAA	ATA ATGGTGGAGA	CTAGCGGGAT	CGAACCGCTG	ACCTCCTGCG	60
TGCAAAnAGC CGCTCTC	CCA GCTGAGCTAA	GCCCCCAAAT	AGGTATTAAA	TTAATGGTGG	120
GCCTAAGTGG ACTCGAA	CCA CCGACCTCAC	GCTTATCAGG	CGTGCGCTCT	AACCAGCTGA	180
GCTATAGGCC CATTAAT	ITG AATGAACAAA	CATTCAAAAC	TGAATACAAT	ATGTCACGTT	240
ATTCCGCATC TTCTGAA	GAA GATGTTCCGA A	ATATATCCTT A	AGAAAGGAGG	TGATCCAGCC	300
GCACCTTCCG ATACGGC	TAC CTTGTTACGA	CTTCACCCCA	ATCATTTGTC	CCACCTTCGA	360
CGGCTAGCTC CTAAAAG	GTT ACTCCACCGG	CTTCGGGTGT			400

(2) INFORMATION FOR SEQ ID NO: 3609:

į	(i)	SEOUENCE	CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double -
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3609:

AGGGCACTCT	TACTGGGCGT	GTTAAATTAC	TAAnTTCAAT	CAGCAGAAGAA	ACTAGGACAT	60
GGCGCTTTTA .	AAA TTATTGA	AACACATGCA	TTAAAAGATG	TACAAGCAGT	ATTGGGTTTT	120
CATAATGACC	CATCGCGTTC	GGTAGGTACA	TTTGCAATCA	AAACAGGGGC	AATTACATCA	180
GCAGTAGATC	GTTTTGAGTT	TCATATTAAA	GGCGTGGGTG	GTCATGCTGC	AAACCAGAAC	240
AATGCAACGA	TCCAGTTATT	GTGTTGGCGC	AATTGATTAA	TAGTATTCAA	TCCATAGTTA	300
GTAGAAATCT .	ATCTGCGTTT	GATGAAGCGG	TAGTAACAAT	TGGACAAATA	TCATGTGGTA	360
ATACTTGGAA	TGTCATTGCT	GATCATGCGT	ATGTACAAGG			400

(2) INFORMATION FOR SEQ ID NO: 36D:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3610:

AGGGAATCGA	ATTTTCTTTC	TCTTCCTCCG	GGTACTAAGA	TGTTTCAGTT	CTCCGGGTGT	60
GCCTTCTGAT	ATGCTATGTA	TTCACATATC	GATAACATGA	CATAACTCAT	GCTGGGTTTC	120
CCCATTCGGA	AATCTCTGGA	TCAAAGCTTA	CTTACAGCTC	CCCAAAGCAT	ATCGTCGTTA	180
GTAACGTCCT	TCATCGGCTT	CTAGTGCCAA	GGCATCCACC	GTGCGCCCTT	ATAACTTAA	240
TCTATGTTTC	CACCATTTTT	ATAAGTCAAA	CGCTCACATA	CGGCTTCGTT	TTCATTATTT	300
TAAATGCTCA	TTTACATAAG	TAAACTCTGC	TTTAAĀATGA	ATTTAACTCA	TTGTCTGCTA	360
AACGTTTTGC	TTTTATAAAA	AGATTTAAAC	GCGTTGATTT			400

(2) INFORMATION FOR SEQ ID NO: 3611:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3611:

GAGCTAGGCC	GGCAATATGT	AAGAATAAAT	GGTGGAGAAT	GACGGGTTCG	AACCGCCGAC	60
CCTCTGCTTG	TAAGGCAGAT	GCTCTCCCAG	CTGAGCTAAT	TCTCCGATTT	AAAACTGCCT	120
GGCAACGTTC	TACTCTAGCG	GAAnTAAGTT	GnACTACCAT	CGACGCTAAG	GAGCTTAACT	180
TCTGTGTTCG	GCATGGGAAC	AGGTGTGÆCC	TCCTTGCTAT	AGTCACCAGA	CATATGAATG	240
TAATTTATAC	ATTCAAAACT	AGATAGTAAG	TAAAAGTGAT	TTTGCTTCGC	AAAACATTTA	300
TTTTGATTAA	GTCTTCGATC	GATTAGTATT	CGTCAGCTCC	ACATGTCACC	ATGCTTCCAC	360
CTCGAACCTA	TTAACCTCAT	CATCTTTGAG	GGATCTTAAT			400

(2) INFORMATION FOR SEQ ID NO: 3612:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3612:

ACCCAGCTCG	CGTACCGCTT	TAATGGGCGA	ACAGCAATCC	CTTGGGACCG	ACTACAGCCC	60
CAGGATGCGA	TGAGCCGACA	TCGAGGTGCC	AAACCTCCCC	GTCGATGTGA	ACTCTTGGGG	120
GAGATAAGCC	TGTTATCCCC	GGGGTAGCTT	TTATCCGTTG	AGCGATGGCC	CTTCCATGCG	180
GAACCACCGG	ATCACTAAGT	CCGTCTTTCG	ACCCTGCTCG	ACTTGTAGGT	CTCGCAGTCA	240
AGCTCCCTTA	TGCCTTTACA	CTCTATGAAT	GATTTCCAAC	CATTCTGAGG	GAACCTTTGA	300
GnGCCTCCGT	TACCTTTTAG	GAGGCGACCG	CCCCAGTCAA	ACTGCCCGCC	TGACACTGTC	360
TCCCACCACG	ATAAGTGTnC	GGGGGTTAGA	AAGCCAACAC			400

(2) INFORMATION FOR SEQ ID NO: 3613:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 487 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3613:

60	TCTAGTGCaA	TTCATCGGCT	AGTAACGTCC	TATCGTCGTT	CCCCAAAGCA	ACTTACAGCT
120	ATAAGTCAAA	CACCATTTT	TCTATGTTTC	AATAACTTAA	GTGCGCCCTT	GGCATCCACC
180	TAAACTCTGC	TTTACATAAG	TAAATGCTCA	TTCATTATTT	CGGCTTCGTT	CGCTCACATA
240	ATTTAAACGC	TTATAAAAAG	ACGTTTTCTT	TGTCTGCTAA	TTTAACTCAT	TTTAAAATAA

GTTATTAATC	TTGTGAGTGT	TCTTTCGAAC	ACTAGCGATT	ATTTCTTATG	AATTCAAGCT	300
TATTTAAAAC	TCTTTATTCA	CTCGGTTTTG	CTTGGTAAAA	TCTATATTTT	ACTTACTTAT	360
CTAGTTTTCA	ATGTACAAAT	AATGGTGGGC	CTAAGTGGAC	TCGAACCACC	GACCTCACGC	420
TTATCAGGCG	TGCGCTCTAA	CCAGCTGAGC	TATAGGCCCA	TTTTTTGaA	TGTTAAATAA	480
ACATTCA						487

(2) INFORMATION FOR SEQ ID NO: 361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3614:

ACCGTACGCT	CTAGCCAGCT	GAGCTÆACC	GCCTTATATA	GTTTGTAAAT	AATATGGTGG	60
AGACTAGCGG	GATCGAACCG	CTGACCTCCT	GCGTGCAAAG	CAGGCGCTCT	CCCAGCTGAG	120
CTAAGCCCCC	ATAATAATTA	CAGTATATCG	GGAAGACAGG	ATTCGAACCT	GCGACCCCTT	180
GGTCCCAAAC	CAAGTGnTCT	ACCAAGCTGA	GCTACTTCCC	GTATAATTAA	G CGCCCGAT	240
AGGAGTCGAA	CCCATAACCT	CTTGATCCGT	AGTCAAACGC	TCTATnCAAT	TGAGCTACGG	300
GCGCATATGT	TTTTATTGAA	AATGGTGCCG	AGGACCGGAA	TCGAACCGGT	ACGGTGATCA	360
CTCACCGCAG	ATTTTAAGTC	CTGTGCGTCT	GCnAGTT CC G			400

(2) INFORMATION FOR SEQ ID NO: 3615:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3615:

60	C TCGTTTCGTC	CGCTCTTTTC	AAACTCGTTG	TAGCTCTACT	CTTACTCATT	TCGGCTCTCG
120	T TTATTTTGAC	TGTTTACTTT	TTTTTCTTTG	CGCCAAGCCA	GTTTTCACTT	AGATTCAAAC
180	G TTCTACTCTA	CCTGGCAACG	TCTCAACTTG	GACCTCACGG	TAAAAAAAGA	GTTTTAGACA
240	GACAATCGCT	CTTGACTTGT	AAAGACCTTT	CATCGTCCT	AGTTGGCTA C	GCGGAACGTA
300	A CTCGTTGCGC	CTCTACTAAA	ACTCATTTAG	GCTCTCGCTT	CTCTCCTTCG	TGCTTCTTTC
360	T TTCTTTGTGT	CAAGCCATTT	TTCACTTCGC	TTCAAACGTT	TTTCGTCAGA	TCTTTTCTCG
400			AAAAAGAGAC	TAGGCATAAA	TTTTGACGTT	TTACTTTTTA

- (2) INFORMATION FOR SEQ ID NO: 3616:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 420 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3616:

TnGTGTCTTT	CGAACACTAG	CGATTATTTC	TTATGAATTC	AAGCTTATTT	AAAACTCTTT	60
ATTCACTCGG	TTTTGCTTGG	kaaaatctat	ATTTTACTTA	CTTATCTAGT	TTTCAATGTA	120
CAATTTCTTT	TTAGTCAAGC	GCTCGCATAA	GCAATATCAC	TTTAACCAAA	AAATATTTGA	180
ATGTTAAATA	AACATTCAAA	ACTGAATACA	ATATGTCACA	TTATTCCGCA	TCTnCTGAAG	240
AAGATGTTCC	GAATATATCC	TTAGAAAGGA	GGnGATCCAG	CCGCACCTTC	CGATACGGCT	300
ACCTTGTTAC	GACTTCACCC	CAATCATTTG	TCCCACCTTC	GACGGCTAGC	TCCTAAAAGG	360
TTACTCCACC	GGCTTCGGGT	GTTACAAACT	CTCGTnGGTG	TGACGGGCGG	TGTGTACAAG	420

- (2) INFORMATION FOR SEQ ID NO: 3617:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3617:

CACTAGCGAT	TATTTCTTAT	GAATTCAAGC	TTATTTAAAA	CTCTTTATTC	ACTCGGTTTT	60
GCTTGGTAAA	ATCTATATTT	TACTTACTTA	TCTAGTTTTC	AATGTACAAT	TTCTTTTTAG	120
TCAAGCGCTC	GCATAAGCAA	TATCACTTTA	ACCAAAAAAT	ATTTGAATGT	ГАААТАААСА	180
TTCAAAACTG	AATACAATAT	GTCACATTAT	TCCGCATCTT	CTGAAGAAGA	TGTTCCGAAT	240
ATATCCTTAG	AAAGGAGGTG	ATCCAGCCGC	ACCTTCCGAT	ACGGCTACCT	TGTTACGACT	300
TCAnCCCAAT	CATTTGTCCC	ACCTTCGACG	GCTAGCTCCT	AAAAGGTTAC	TCCACCGGCT	360
TCGGGTGTTA	CAAACTCTCG	TGGTGTGACG	GGCGGTGTGT			400

- (2) INFORMATION FOR SEQ ID NO: 3618:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3618:

GATATACGCT ATGGCTGGAG C	AGTGTGGCC AAATGGCGG	AGACAAACGT	TTAATGCGAT	60
ATACTTAGCG CAAAATATTG G	TGTGGCTGT CGGTGCTGC	ATGGGCGGCT	TTGTCGCAGA	120
ATTTAGCTTT AACTATATCT T	TTTACCAA TCTTATTATG	TATGTTGTGT	TTGCGCTTGT	180
CCGGTTAACn AATTTAATAT T	GAAATTAAT GCGAAAGTT	AATATCCAAC	TCATTTAGAT	240
ATTACTGGTA AAAAGAATAA A	GCAAGATTT ATTTCATTAC	TACTAATTTG	TGCAATGTTT	300
GCAATTTGTT GGGTTGCATA T.	ATTCAATGG GGAGTCTAC	A ATCGCTTCAT	TTACACAAT	360
CTATTAATAT TTCAATGGGC A	CAATATAGT GTTTTATGGO			400

(2) INFORMATION FOR SEQ ID NO: 3619:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3619:

TCGCACGCCT	TCGCCTATCC	TACTGCGTCC	CCCCATCGAT	TAAAACGATT	ATAGGTGGTA	60
CAGGnAATAT	CAACCTGTTA	TCCATCGCCT	ACGCCTGTCG	GCCTCAGCTT	AGGACCCGAC	120
TAACCCAGAG	CGGACGAGCC	TTCCTCTGGA	AACCTTAGTC	AATCGGT G GA	CGGGATTCTC	180
ACCCGTCTTT	CGCTACTCAC	ACCGGCATTC	TCACTTCTAA	GCGCTCCACA	TGTCCTTACG	240
ATCATGCTTC	AACGCCCTTA	GAACGCTCTC	CTACCATTGT	CCAAAGGAAA	TCCACAGCTT	300
CGGTAATATG	TTTAGCCCCG	GTACATTTC	GGCGCAGTGT	CACTCGACTA	GTGAGCTATT	360
ACGCACTCTT	TAAATGATGG	CTGCTTCTAA	GCCAACATCC	• .		400

(2) INFORMATION FOR SEQ ID NO: 3620:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3620:

TTAAGTCTTC GATCGATTAG TATTCGTCAG CTCCACATGT CACCATGCTT CCACCTCGAA 60

CCTATTAACC TCATCATCTT TGAGGGATCT TATAACCGAA GTTGGGAAT CTCATCTTGA 120

GGGGGGCTTC ATGCTTAGAT GCTTTCAGCA CTTATCCCGT CCACACATAG CTACCCAGCT 180

ATGCCGTTGG	CACGACAACT	GGTACACCAG	AGGTATGTCC	ATCCCGGTCC	TCTCGTACTA	240
AGGACAGCTC	CTCTCAAATT	TCCTACGCCC	ACGACGGATA	GGGACCGAAC	TGTCTCACGA	300
CGTTCTGAAC	CCAGCTCGCG	TACCGCTTTA	ATGGGCGAAC	AGCCCAACCC	TTGGGACCGA	360
CTACAGnCCC	AAGGATGCGA	TGAGCCGACA	TCGAGGTGCC			400

(2) INFORMATION FOR SEQ ID NO: 3621:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 475 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3621:

CCACACCCGc AAATGGTGag CCATAGcAGG ATTCGgaACC TCTGcACCCT CTGATTAAAA 60 GTCAGCATGC TCTACCAACT GAGCTAATGG CTCTTCCATG GTGCCGGCCA GAGGACTTGA 120 ACCCCCAACC TACTGATTAC AAGTCAGTTG CTCTACCAAT TGAGCTAGGC CGGCAATATG 180 TAAGAATAAA TGGTGGAGAA TGACGGGTTC GAACCGCCGA CCCTCTGCTT GTAAGGCAGA 240 TGCTCTCCCA GCTGAGCTAA TTCTCCGATT TAAAACTGCC TGGCAACGTTCTACTCTAGC 300 GGAACGTAAG TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA 360 ACAGGTGTGA CCTCCTTGCT ATAGTCACCA GACATATGGA ATGTAATTTA TACATTCAAA 420 ACTAGATAGT AAGTAAAAGT GATTTTGCTT CGCAAAACAT TTATTTTGAT TAAGT 475

(2) INFORMATION FOR SEQ ID NO: 3622:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3622:

TGGACGAAAC TTTATATCGA TCAATTTCTA TCGAGTTGGA CAATGCCGAA GCGTGACAAA 60

AGTTTTTACC ATGCATGGTT GCATTTAGCG CAACATGACC ATAGTTTTAC TAAAGCACAG 120

CGCnCAAGTG ATTAAAGGCT TACCCAATGA TCCTGAAATG ACGATAGAGT CAGTATTAAC 180

TCATTTTCA ATAGATCAGG AAGACACCA AGCTTATGTT GAAGGACATC TTTTGGCGTT 240

ACCGGGTTGG GCAGGTATGT TGTATTACCG TTCACAACAG CATCACTTTG AACAACATTT 300

GTTAACGGAT TATTTGGCAA TTCGGTTAGT TGTCGAACAA TTGCTAGTTG GTGGATGAGT 360

- (2) INFORMATION FOR SEQ ID NO: 3623:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3623:

TAGATGCTTT CASACTTATC	CCGTCCACAC	ATAGCTACCC	AGCTATGCCG	TTGGACGACA	60
ACTGGTACAC CAGAGGTATG	TCCATCCCGG	TCCTCTCGTA	CTAAGGACAG	CTCCTCTCAA	120
ATTTCCTACG CCCACGACGG	ATAGGGACCG	AACTGTCTCA	CGACGTTCTG	AACCCAGCTC	180
GCGTACCGCT TTAATGGGCG	AACAGCCAAC	CCTTGGGACC	GACTACAGCC	CCAGGATGCG	240
ATGACCGACA TCGAGGTGCC	AAACCTCCCC	GTCGATGTGA	ACTCTTGGGG	GAGATAAGCC	300
TGTTATCCCC GGGGTAGCTT	TTATCCGTTG	AGCGATGGCC	TTCCATGCGG	GAACACCGGA	360
TCACTAAGTC CGTCTTTCGA	CCCTGCTGA (CTTTGTAGGn			400

- (2) INFORMATION FOR SEQ ID NO: 3624:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3624:

GAGCTAGGCC	GGCAATATGT	AAGAATAAAT	GGTGGAGAAT	GACGGGTTCG	AACCGCCGAC	60
CCTCTGCTTG	TAAGGCAGAT	GCTCTCCCAG	CTGAGCTAAT	TCTCCGATTT	AAAACTGCCT	120
GGCAACGTTC	TACTCTAGCG	GAAnTAAGTn	GnACTACCAT	CGACGCTAG (GAGCTTAACT	180
TCTGTGTTCG	GCATGGGAAC	AGGTGTGACC	TCCTTGCTAT	AGTCACCAGA	CATATGAATG	240
TAATTTATAC	ATTCAAAACT	AGATAGTAAG	TAAAAGTGAT	TTTGCTTCGC	AAACATTTAT	300
TTTGATTAAG	TCTTCGATCG	ATTAGTATTC	GTCAGCTCCA	CATGTCACCA	TGCTTCCACC	360
TCGAACCTAT	TAACCTCATC	ATCTTTGAGG	GGATCTTATA			400

- (2) INFORMATION FOR SEQ ID NO: 3625:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi)	SEQUENCE DES	SCRIPTION:	SEQ ID NO:	3625:		
TTAAAGAACG	CTAATAACTG	ATCGTAACCA	CTATATATAT	TGTTGTGACC	TCTAACAGCA	60
TAATGTCTAA	ATGTTTGTGG	GATATATTGA	AGCAATCCTT	TTGCTGGATT	GCCCTGTAAA	120
ACGTTGATGT	CTCTAAGCGA	ACTAGATTGA	GTTATACCTG	CATTTCCTCC	TGATTCGTGT	180
TGAATCAAGC	TAATGATATT	TCCTACGTCA	GCCGAAGTAA	CATTAACACC	CATTCGTTTT	240
GCTGCACGAC	GTATATCGCC	TGCCCAAGCA	GATGCAGCCT	TATTAACACC	TGAACCACTT	300
CGAACGCCAC	TACCTTTAAG	TGACTTCAAC	CATTTTTCTG	GATCTTTAGC	IGTATCATTC	360
CCTGGATGCG	ACCCTTGCAT	.CAn T TGGGAA	ATGTAnGTGT			400

(2) INFORMATION FOR SEQ ID NO: 3626:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 461 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3626:

GATTGTGGTT	CCGACATTCG	AGGGTTCGAT	CCCCTTCAGC	CGCCCTTATT	ATTAATGGGC	60
TATAGCCAAG	CGGTAAGGCA	ACGGACTTTG	ACTCCGTCAC	TCG TT GGTT C	GAATCCAGCT	120
AGCCCAGTTA	TTGGCGGCAT	AGCAAGTGGT	AAGGCAGAGG	TCTGCAAAAC	CTTTATCACC	180
GGTTCAAATC	CGGTTGCCGC	CTCCAGGTTT	ATGCGGGAGT	AGTTCAACTT	TTAGAACACG	240
TTCCTTCCCG	GAAGAGGTAT	AGGTGCAAAT	CCTATCTTCC	GCTCCATAAT	TTAATAATAA	300
TGCGGGAGTA	TTTCAACTCT	TAGAATACAT	TCCTTCCTGG	AATgAGGTAT	AGGTGTAAAT	360
CCTATCTTCC	GCTCCATAAT	TTAATATTTG	cGGGAGTAGT	TCAACTTTTA	GAAACAGCTC	420
CTTCCCGGAA	CCGAGGTATA	GGTGTAAATC	CTATCTTCCG	С		461

(2) INFORMATION FOR SEQ ID NO: 3627:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3627:

TGCGGTCTCA ATGCGGCTCA TCGCATCCAT TTTTTGCCTG GCAACGTCT ACTCTAGCGG

60

AACGTAAGTT	GGCTnAnATC	GACGCTAAGA	ACCTTTCTTG	ACTTGTGACA	ATCGCTTGCT	120
TCTTTCCTCT	TCTTCGGCTC	TCGCTTACTC	ATTTAGCTCT	ACTAAACTCG	TTGCGCTCTT	180
TTCTCGTTTC	GTCAGATTCA	AACGTTTTCA	CTTCGCCAAG	CCATTTTTCT	TTGTGTTTGC	240
TTTTTATTTT	GACGTTTTAG	ACATAAAAA	AAGAGACCTT	GCGGTCTCAA	TGCGGCTCAT	300
CGCATCCATT	TTTTGCCTGG	CAACGTTCTA	CTCTAGCGGA	ACGTAAGTTC	GACTACCATC	360
GACGCTAAGG	GAGCTTAACT	TCTGTGTnCG	GGCATGGGGG			400

(2) INFORMATION FOR SEQ ID NO: 3628:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3628:

ATGCTTTCAG	CACTTATCCC	GTCCACACAT	AGCTACCCAC	CTATGCCGTT	GGCACGACAA	60
CTGGGTACAC	CAGAGGTATG	TCCATCCCGG	TCCTCTCGTA	CTAAGGACAG	CTCCTCTCAA	120
ATTTCCTACG	ACCCACGACG	GATAGGGACC	GAACTGTCTC	ACGACGTTCT	GAACCCAGCT	180
CGCGTACCGC	TTTAATGGGC	GAACAGCCCA	ACCCTTGGGA	CCGACTAAG	CCCCAGGATG	240
CGATGAGCCG	ACATCGAGGT	GCCAAACCTC	CCCGTCGATG	TGAACTCTTG	GGGGAGATAA	300
GCCTGTTATC	CCCGGGGTAG	CTTTTATCCG	nTGAGCGATG	GGCCTTCCAT	GCGGnACCAC	360
CGGnTTACTA	AGTCCGTCTT	TCGAnCCTGC	TCGACTTGTA			400

(2) INFORMATION FOR SEQ ID NO: 3629:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3629:

TTTATAAATA TCCCAGTCTG AACGCGATTC CCATAACGGA TCAATGGCAG GATTGAAAGG 60
ATGTACATAT GGATGCATAT CCGTTGATGA TAAATCATGT TTTTCATACC AAGTCGCTGC 120
CGGCAAAACA ATGTCAGAAT ATAACGGTGT TGCCGTCATT CTGAAGTCTA AAGAGACCAC 180
TAAATCTAAC TTACCTGTTG TTTCTCACG CCACGTAATT TCTTCTGGCT TTTCATCTTC 240
ATTTGGTGTA GCTAATAACC CTGATTTTGT GCCAAGTAAA TGCTTCATAA AGTATTCTTG 300
ACCTTTTGCA GAACTTGAAA TTAAGTTTGA ACGCCATATA AATAATGATT TTGGATGATT 360

(2) INFORMATION FOR SEQ ID NO: 3630:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 589 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3630:

TTTAAGTTGT nGATTTAAAA TATTAATAAA GTGTAAATTT GACTATTGAN ATTCkrACAa 60 ATACATATTA AAATAATATT TGTTGAATTA ATTGAGTTAG GAAATTTATT TTTTAGAAAT 120 AAAATAATTA AAAATAATTC TTGACTTACA AAAACTTACG AGTTATAATT AAATCTTGTA 180 AGTGACAAAC GAACATTGAA AACTGAATGA CAATATGTCA ACGTTAATTC CAAAAACGTA 240 ACTATAAGTT ACAAACATTA TTTAGTATTT ATGAGCTAAT CAAACATCAT AATTTTTATG 300 GAGAGTTTGA TCCTGGCTCA GGATGAACGC TGGCGGCGTG CCTAATACAT GCAAGTCGAG 360 CGAACGGACG AGAAGCTTGC TTCTCTGATG TTAGCGGCGG ACGGGTGAGT AACACGTGGA 420 TAACCTACCT ATAAGACTGG GATAACTTCG GGAAACCGGA GCTAATACCG GATrATATTT 480 TGAACCGCAT GGTTCAAAAG TGAAAGACGG TCTTGCTGTC ACTTATAGAT GGATCCGCGC 540 TGCATTAGCT AGTTGGTAAG GTAACGGCTT ACCAAGGCAA CGATGCATA 589

(2) INFORMATION FOR SEQ ID NO: 3631:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEOUENCE DESCRIPTION: SEO ID NO: 3631:

CCAACTGAGC TAATGGCTCT TCCATGGTGC CGGCCAGAGG ACTTGAACCC CCAACCTACT 60

GATTACAAGT CAGTTGCTCT ACCAATTGAG CTAGGCCGGC AATATGTAAG AATAAATGGT 120

GGAGAATGAC GGGTTCGAAC CGCCGACCCT CTGCTTGTAA GGCAGATGCT CTCCCAGCTG 180

AGCTAATTCT CCGATTTAAA ACTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTCG 240

ACTACCATCG ACGCTAAGGA GCTTAACTTC TGTGTTCGGC ATGGGAACAG GTGTGACCTC 300

CTTGCTATAG TCACCAGACA TATGAATGTA ATTTATACAT TCAAAACTAG ATAGTAAGTA 360

AAAGTGATTT GCTTCGCAAA ACATTTATT TGATTAAGTC 400

(2) INFORMATION FOR SEQ ID NO: 3632:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

'(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3632:

CCTTCATCGG	CTTCTAGTGC	CAAGGCATCC	ACCGTGCGCC	CTTAATAACT	TAATCTATGT	60
TTCCACCATT	TTTATAAGTC	AAACGTTAAC	ATGAAGTTAC	GTTCTTTTAT	AAAAAGATTT	120
AAACGCGTTA	TTAATCTTGT	GAGTGTTCTT	TCGAACACTA	GCGATTATT (CTTATGAATT	180
CAAGCTTATT	TAAAACTCTT	TATTCACTCG	GTTTTGCTTG	GTAAAATCTA	TATnTTACTT	240
ACTTATCTAG	TTTTCAATGT	ACAAATAATG	GTGGAGACTA	GCGGGATCGA	ACCGCTGACC	300
TCCTGGCGTG	CAAAGCAGGC	GCTCTCCCAG	CTGAGCTAAn	GCCCCCAnAT	AGGTATTAAA	360
TTAATGGGGG	GGCCTAAGTG	GACTCGAACC	ACCGACCTCA			400

(2) INFORMATION FOR SEQ ID NO: 3633:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3633:

ATATGTCAAC GTTAATTCCA	AAAAACGTAA C	CTATAAGTTA	CAAACATTAT	TTAGTATTTA	60
TGAGCTAATC AAACATCATA	ATTTTTATGG A	GAGTTTGAT	CCTGGCTCAG	GATGAACGCT	120
GGCGGCGTGC CTAATACATG	CAAGTCGAGC GA	AACGGACGA	GAAGCTTGCT	TCTCTGATGT	180
TAGCGGCGGA CGGGTGAGTA	ACACGTGGAT A	ACCTACCTA	TAAGACTGGG	ATAACTTCGG	240
GAAACCGGAG CTAATACCGG	ATAATATTTT G	SAACCGCATG	GTTCAAAAGT	GAAAGACGGT	300
CTTGCTGTCA CTTATAGATG	GATCCGCGCT G	CATTAGCTA	GTTGGTAAGG	FAACGGCTTA	360
CCAAGGCnAC GATGCATAGC	CGACCTGAGA n	GGTGATCGG			400

(2) INFORMATION FOR SEQ ID NO: 3634:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3634:

TGAGCTAGGC	CGGCAATATG	TAAGAATAAA	TGGTGGAGAA	TGACGGGTTC	GAACCGCCGA	60
CCCTCTGCTT	GTAAGGCAGA	TGCTCTCCCA	GCTGAGCTAA	TTCTCCGATT	TAAAACTGCC	120
TGGCAACGTT	CTACTCTAGC	GGAACGTAAG	TTCGACTACC	ATCGACGCTA	AGGAGCTTAA	180
CTTCTGTGTT	CGGCATGGGA	ACAGGTGTGA	CCTCCTTGCT	ATAGTCACCA	GACATATGAA	240
TGTAATTTAT	ACATTCAAAA	CTAGATAGTA	AGTAAAAGTG	ATTTTGCTTC	GCAAAACATT	300
TATTTTGATT	AAGTCTT C GA	TCGATTAGTA	TTCGTCAGCT	CCACATGTCA	CCATGCTTCC	360
ACCTCGAACC	TATTAACCTC	ATCATCTTTG	AGGGATCTTA			400

(2) INFORMATION FOR SEQ ID NO: 3635:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3635:

TTGTGACAAT	CGCTTGCTTC	TTTCCTCTCC	TTCGGCTCTC	GCTTACTCAT	TTAGCTCTAC	60
TAAACTCGTT	GCGCTCTTTT	CTCGTTTCGT	CAGATTCAAA	CGTTTCACT	TCGCCAAGCC	120
ATTTTTCTTT	GTGTTTACTT	TTTATTTTGA	CGTTTTAGAC	АТАААААААА	GAGACCTTGC	180
GGTCTCAAAT	GCGGCTCATC	GCATCCATTT	TTTGCCTGGC	AACGTTCTAC	TCTAGCGGAA	240
CGTAAGTTGG	GCTACCATCG	ACGCTAAGAA	CCTTTCTTGA	CTTGTGACAA	TCGCTTGCTT	300
CTTTCCTCTT	CTTCGGCTCT	CGCTTACTCA	TTTAGCTCTA	CTAAACTCGT	TGCGCTCTTT	360
TCTCGTTTCG	TCAGATTCAA	ACGTTTTCAC	TTCGCCAAGC			400

(2) INFORMATION FOR SEQ ID NO: 3636:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3636:

TACTTATCTA	GTTTTCAATG	TACAATTTCT	TTnTAGTCAA	GCGCŢCGCAT	ACTGATTTTC	60
ААААААТСАА	ATGCTCATTT	ACAAAAGTAA	ACTCCGCTTT	ATTTTTCTTA	ATGCATTGTC	120
TAACAACCGC	TTTCTTTAAA	AAGAATAGAT	TGTCAAGCGC	TCGCATAAGC	AATATCACTT	180

TAACCAAAAA	ATATTTGAAT	GTTAAATAAA	CATTCAAAAC	TGAATACAAT	ATGTCACGTT	240
ATTCCGCATC	TTCTGAAGAA	GATGTTCCGA	ATATATCCTT	AGAAAGGÆG 1	GATCCAGCC	300
GCACCTTnCG	ATACGGCTAC	CTTGTTACGA	CTTCACCCCA	nTCATTTGTn	CCACCTTCGA	360
CGGCTAGCTC	CTAAAAGGTT	ACTCCACCGG	CTTCGGGTGT			400

- (2) INFORMATION FOR SEQ ID NO: 3637:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3637:

AGCGCTCGCA	TAAGCAATAT	CACTTTAACC	AAAAAATATT	TGGAATGTTA	AATAAACATT	60
CAAAACTGnA	ATACAATATG	TCACATTATT	CCGCATCTTC	TGAAGAAGAT	GTTCCGAATA	120
TATCCTTAGA	AAGGAGGTGA	TCCAGCCGCA	CCTTCCGATA	CGGCTACCTT	GTTACGACTT	180
CACCCCAATC	ATTTGTCCCA	CCTTCGACGG	CTAGCTCCTA	AAAGGTTACT	CCACCGGCTT	240
CGGGTGTTAC	AAACTCTCGT	GGTŒGACGG	GCGGTGTGTA	CAAGACCCGG	GAACGTATTC	300
ACCGTAGCAT	GCTGATCTAC	GATTACTAGC	GATTCCAGCT	TCATGTAGTC	GAGTTGCAGA	360
CTACAATCCG	AACTGAGAAC	CACTTATGGG	ATTGCCTnAC			400

(2) INFORMATION FOR SEQ ID NO: 3638:

(2) INFORMATION FOR SEQ ID NO: 3639:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3638:

TTCTCCGATT	TAAAACTGCC	TGGCAACGTT	CTACTCTAGC	GGAATAAGT	CGAnCTACCA	60
TCGACGCTAA	GGAGCTTAAC	TTCTGTGTTC	GGCATGGGAA	CAGGTGTGAC	CTCCTTGCTA	120
TAGTCACCAG	ACATATGAAT	GTAATTTATA	CATTCAAAAC	TAGATAGTAA	GTAAAAGTGA	180
TTTTGCTTCG	CAAAACATTT	ATTTTGATTA	AGTCTTCGAT	CGATTAGTAT	TCGTCAGCTC	240
CACATGTCAC	CATGCTTCCA	CCTCGAACCT	ATTAACCTCA	TCATCTTTGA	GGGATCTTAT	300
AACCGAAGTT	GGGGAAATCT	CATCTTGAGG	GGGGCTTCAT	GCTTAGATGC	TTTCAGCACT	360
TATCCCGTCC	ACACATAGCT	ACCCAGCTAT	GCCGTTGGCA			400

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 551 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3639:

ATGTCTCTAA	CGCCTTTAAT	AGTATTGAAC	ACAATTGGGA	AAAAAGCAGC	GATAAAAATA	60
ATCGCAATCG	CTGGCAAACT	ACCAATACCA	AACCATAGAA	CAACAAATGG	TGCCCATGCT	120
ATCGGAGATA	TCGGCCTAAT	CAATTGAAAT	AGCGGTTCGA	TAGCGTTGTA	TAGCCAACGA	180
TTCCTTCCAA	GCAAGAAGCC	CAATGGAATA	GCAACCAACA	ATGCGEAAC	AAAGCCCGCT	240
ACAAATCTCC	ATAAACTAAT	TGCTAAATGT	TGGAAAATTT	CTCCAGTAAC	AATGAAAGAC	300
CATATACTTT	TTCCTACAAG	AGCAGGACCC	GGTAACAATA	CAGGTTGGTA	ATGCCCAATA	360
ATAaTGACCA	TTTCCCAAaT	GCCTAAGAAA	aTAATAAATG	TGATAATAGG	TAATATAAAT	420
TTGTTATTTG	TGGGACGTGT	CATGAACGCG	ATGCCTCCTT	ATACAATGAC	GGTTCAACAA	480
AGTCATCCAT	ATGCAGGTGG	ATTAAACAAA	TGATGTTGTT	TTACCAnGTC	GTAATTTCCT	540
GATAGCCGGA	Т					551

(2) INFORMATION FOR SEQ ID NO: 3640:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3640:

CACTAAACTA	AATTAATGAA	GTGCCTTATG	TATAAAAATT	ATAACTTGAT	CCAACTTACA	60
CTACCAATAG	AAACTTCTGT	TAGAATTCCT	CAAATTGATA	TTTCGCGATA	TGTTAATGAA	120
ATTGTTGAAA	CGATACCTGA	TAGCGAATTC	GATAAATTCA	GACATCATCG	TGGCGCAACA	180
TCCTATCATC	CAAAAATGAT	GTTAAAAATC	ACCTTATATG	CATATACŒA	ATCTGTATTT	240
TCTGGTCGTA	GAATAGAGAA	ATTACTTCAT	GACAGTATTC	GAATGATGTG	GTTAGCTCAA	300
AATCAAACAC	CTTCTTATAA	AACTATTAAT	CGTATTAGAG	TGAATCCTAA	TACTGATGCG	360
TTAATTGAAT	CTTTATTTAT	CCAGTTTCAT	AGTCAATGTT			400

(2) INFORMATION FOR SEQ ID NO: 3641:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 398 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3641:

ACTAGTCGAG	TGACACTGCG	CCGAAAATGT	ACCGGGGCTA	AACATATTAC	CGAAGCTGTG	60
GATTGTCCTT	TGGcAATGGT	AGGAGAGCGT	TCTAAGGGCG	TTGAAGCATG	ATCGTAAGGA	120
CATGTGGAGC	GCTTAGAAGT	GAGAATGCCG	GTGTGAGTAG	CGAAAGACGG	GTGAGAATCC	180
CGTCCACCGA	TTGACTAAGG	TTTCAGAGG	AAGGCTCGTC	CGCTCTGGGT	TAGTCGGGTC	240
CTAAGCTGAG	GCCGACAGnG	TAgGCGATGG	ATAACAGGTT	GATATTCCTG	TACCACCTAT	300
AATCGTTTTA	ATCGATGGGG	GGrCGCATAG	GATAGGCGAA	CGTTGCGATT	GGATTGCACG	360
TCTAAGCAGT	AAGGCTGGAG	TATTAGGCAA	ATCCGGTA			398

(2) INFORMATION FOR SEQ ID NO: 3642:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 439 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3642:

TAATGTCTAC ACTTTGCTTG CGATCATTCA TTTTAAAGCC AGACTTTTTA TAATCTTGTA	60
CAAATGCTTG CGCTACATCC TTGTGTTGAT CAAGCAATTC CCCTCTCAGT ACTAGCACAC	120
AGCAATACGC ATCAGGTATA ACGTCATCAC CATGTTTCAA AGTCTTACCT TTGCCTAACT	180
TTTCACCCAG TGCACCGAAT GGTTCGGCTA CAGAATACCC TGTaATTCTG TGTTCACTCA	240
ATGCGGCTGG CATTTCTGCT GGCGACATTT CATGATAGCT AAAATGCCCC GGTTTAATCT	300
TTAATTGTTT ACGTAATTCC TCAAGTAAAA GATAATGTGt TGAATAACGA TGTGGtATAC	360
CAAAATGGKA ATCATCGCCA TTATTAA ATTCATTTAA GTGCATACCT TTTTGTCCCA	420
TAATGACATT GCCTTCATG	439

(2) INFORMATION FOR SEQ ID NO: 3643:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3643:

ATTTCTTATG AATTCAAGCT TATTTAAAAC TCTTTATTCA CTCGGTTI	TG CTTGGTAAAA 60
TCTATATTTT ACTTACTTAT CTAGTTTTCA ATGTACAAAT AATGG&GA	AG ACTAGCGGGA 120
TCGAACCGTG ACCTCCTGCG TGCAAAGCAG GCGCTCTCCC AGCTGAGC	TA AGCCCCCAAA 180
TAGGTATTAA ATTAATGGTG GGCCTAAGTG GACTCGAACC ACCGACCT	CA CGCTTATCAG 240
GCGTGCGCTC TAACCAGCTG AGCTATAGGC CCATTAATTT GAATGAAC	CAA ACATTCAAAA 300
CTGAATACAA TATGTCACGT TATTCCGCAT CTTCTGAAGA AGATGTTC	CG AATATATCCT 360
TAGAAAGGAG GTGATCCAGC CGCACCTINC GATACGGTTA	400

(2) INFORMATION FOR SEQ ID NO: 3644:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 399 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3644:

GCGAAACTGT ACGGAGCAAC GCCGCGTGA	AG TGATGAAGGT CTTCGGATCG TAAAACTCTG	60
TTATTAGGGA AGAACATATG TŒAAGTAA	C TGTGCACATC TTGACGGTAC CTAATCAGAA	120
AGCCACGGCT AACaCGTGCC AGCAGCCGC	CG GTAATACGTA GGTGGCAAGC GTTATCCGGA	180
ATTATTGGGC GTAAAGCGCG CGTAGGnG	TT TTTTAAGTCT GATGTGAAAG CCCACGGnTC	240
AACCGTGGAG GGTCATTGGA AACTGGAAA	AA CTTGAGTGCA GAAGAGGAA GTGGAATTCC	300
ATGTGTAGCG GTGAAATGCG CAGAGATA	IG GAGGAACACC AGTGGCGAAG GCGACTTTCT	360
GGTCTGTAAC TGACGCTGAT GTGCGAAAC	CG TGGGGATCA	399

(2) INFORMATION FOR SEQ ID NO: 3645:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3645:

60	CCAAGCCATC	TTTCACTTCG	ATTCAAACGT	GTTTCGTCAG	TACATTTCTC	TATTATACTT
120	CTTGCGGTCT	AAAAAGAGAC	TTAGACATAA	TTTTGACGTT	TTTGCTTTTA	TTTCTTTGTG
180	GGAACGTAAG	CTACTCTAGC	TGGCAACGTT	ACTTTTTGCC	CATCGCATCC	CAATGCGGCT
240	ACAGGTGTGA	CGGCATGGGA	CTTCTGTGTT	AGGAGCTTAA	ATCGACGCTA	TnCGACTACC

CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAAATnAT ACATTCAAAA CTAGATAGTA	300				
AGTAAAAGTG GATTTTGCTT CGCAAAACAT TTATTTTGGA TTAAGTCTTC GATCGGATTA	360				
GTATTCGTCA GCTCCACATG TCACCATGGC TTCCACCTCG	400				
(2) INFORMATION FOR SEQ ID NO: 3646:					

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 758 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3646:

AGATAAGTAA	GTAAAATATA	GATTTTACCA	AGCAAAACCG	AGTØATAAA	GAGTTTTAAA	60
TAAGCTTGAA	TTCATAAATA	ATCGCTAGTG	TTCGAAAGAC	ACGAnCAAGA	TTAATAACGC	120
GTTTAAATCT	TTTTATAAAA	GAACGTAACT	TCATGTTAAC	GTTTGACTTA	TAAAAATGG T	180
GGAAACATAG	ATTAAGTTAT	TAAGGGCGCA	CGGTGGATGC	CTTGGCACTA	GAAGCCTATG	240
AAGGACGTTA	CTAACGACGA	TATGCTT T GG	GGAGCTGTAA	GTAAGCTTTG	ATCCAGAGAT	300
TTCCGAATGG	GGAAACCCAG	CATGAGTTAT	GTCATGTTAT	CGATATGTGA	ATACATAGCA	360
TATCAGAAGG	CACACCCGGA	GAACTGAAAC	ATCTTAGTAC	CCGGAGAAGA	GAAAGAAAAT	420
TCGATTCCCT	TAGTAGCGGC	GAGCArAACG	GGAAGAGCCC	AAACCAACAA	GCTTGCTtGg	480
GGGTnTGTaG	GACACTCTAT	ACGGATTACA	AAGGACGACA	TTAGACGAAT	CATCTGGaAA	540
GATGAATCAA	AGAAGGTAAT	AATCCTGTAG	TCGAAAATGT	TGTCTCTCTT	GAGTGGATCC	600
TGaGTACGAC	GGAGCACGTG	AAATTCCGTC	GGAAT CT GGG	GAGGaCCATC	CCTAAGGCT	660
AAATACTCTC	TAGTGACCGA	TAGTGGAACC	aGTaCCGTGA	GGGAAAGGTg	AAAAGCACCC	720
gGAAgGnAGT	TGAAATaGAA	ctGGAAACCG	TGTGCTTA			758

(2) INFORMATION FOR SEQ ID NO: 3647:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3647:

ACAAACTCCG	AATGCCAATT	AATTTAACTT	GGGAGTCAGA	ACATGGGTGA	TAAGGTCCGT	60
GTTCGAAAGG	GAAACAGCCC	AGACCACCAG	CTAAGGTCCC	AAAATATATG	TTAAGTGGAA	120
AAGGATGTGG	CGTTGCCCAG	ACAACTAGGA	ТСТТСССТТА	GAAGCAGCCA	TCATTTAAAG	180

AGTGCGTAAT	AGCTCACTAG	TCGAGTGACA	CTGCGCCGAA	AATGTACCGG	GGCTAAACAT	240
ATTACCGAAG	CTGTGGATTG	TCCTTTG®A	TGGGTAAGGA	GAGCGTTCTA	AGGGCGTTGA	300
AGCATGATCG	TAAGGACATG	TGGGAGCGCT	TAGAAGTGAG	AATGCCGGTG	TGAGTAGCGA	360
AAGACGGGTG	AGAATCCCGT	CCACCGATTG	ACTAAAGGTT			400

(2) INFORMATION FOR SEQ ID NO: 3648:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 521 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3648:

GTCATTGGAA ACTGGAAAAC TTGAGTGCAG AAGAGGAAAG TGGAATTCA TGTGTAGCGG 60 TGAAATGCGC AGAGATATGG AGGAACACCA GTGGnCGAAG GCGACTTTCT GGTCTGTAAC 120 TGACGCTGAT GTGCGAAACG TGGGGATCAA ACAGGATTAG ATACCCTGGT AGTCCACGCC 180 GTAAACGATG AGTGCTAAGT GTTAGGGGGT TTCCGCCCCT TAGTGCTGCA GCTAACGCAT 240 TAAGCACTCC GCCTGGGGAG TACGACCGCA ANGTTGAAAC TCAAAGGAAT TGACGGGGAC 300 CCGCACAAGC GgTGGaGCAT GTGGTTTAAT TCGAAGCAAC GCGAAGAACC TTACCAAATC 360 TTGACATCCT TTGACAACTC TAGAGATAGA GCCTTCCCCT TCGGGGGACA AAGTGACAAG 420 TGGTGCATGG TGTCGTCAAC TCCTGTCGTT GAGATGTTGG GGTAAnTCCC CGCAAnGAGC 480 GCACCCTTAA GCCTTAGTTT nCATCATTAA GTTGGGCACT C 521

(2) INFORMATION FOR SEQ ID NO: 3649:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3649:

CCAAAGTTCA TCTTTACGA ATGAGAAATA GGTGTTGCAT ATTCAATGGT CTCATCTTGT 60

TTATAAAAGC CACCATCTAA ATCACTAATC CATTGTGGTA AGTCTCCAAGTTCGTCTTCC 120

ATACGTGTTT TAACACGTTC GTATCCCATT GCATCCCATA ATTGGAATGG ACCAAGTTTC 180

CAGTTGAACC CCCAGACAAG CGCACGGTCT ATGTCTCGGA AATCATCGGT AGCTTTAGGT 240

ACATTGATAG CAGAGTAATA GAAATTATTA CGTAATGTCT CCCATAAAAA TAGTCCCGCT 300

TCGTCTTGcG CATTGAATAT GGTATCAAkG TTATGCACTA aGTCTTTATT AAATTCATTT	360
AAAATTGGTA ATTGTGGTTG CGATACAGGT ACATAATCTT	400
(2) INFORMATION FOR SEQ ID NO: 3650:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3650:	
GCGATAATAA AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGn CCGTTAAGGC	60
CCTGTCGGTT TTCAAGACCG ATCCCTCAG CCGGACTTGG GTATTCCTCC ATTATTATAG	120
GTAAATCGCT ATTAATTATA AAATTAAATG GCGGTCTCGA CGGGAATCGA ACCCGCGATC	180
TCCTGCGTGA CAGGCAGGCG TGTTAACCGC TACACTACGA GACCATTAGT AAAACGGAGG	240
AAGAGGGATT CGAACCCCCG CGAGCCGTTA AGCCCCTGTC GGTTTTCAAG ACGATCCCT	300
TCAGCCGGAC TTGGGTATTC CTCCAAAATT ATATGGACCT TGCAGGACTC GAACCTGCGA	360
CCGAACGGTT ATGGAGCCGT TAGCTCTAAn CAACTTGAGC	400
(2) INFORMATION FOR SEQ ID NO: 3651:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3651:	
TGGCGCTGTG CTTTAGTAAA ACTATGGTCA TGTTGCGCTA AATGCAACCA TGCATGGTAA	60
AAACTTTGCT CACGCTTCGG CATTGTCCAA CTCGATAGAA ATTGATCGAT ATAAAGTTTC	120
GTCCATTTAA TCATTTGACG ATTCACTTGT TCGCTAAGTG GCTCACCTTG TTCATCTATT	180
ATTGCATCAC TCATCGGACG TACATCATAG TGATGATATG ATTCAGCCAT ATCACGTTTT	240
GATTTTTCTA ATAGTAGATC AGCAACAACA TCAACATTTG AATGATTCAT ATATGATGGC	300
AGGTACGTCT TTTAATGTTT TAATGTTATC AATATAAAGA TGATGTAGTG TTGCGGGATA	360
TGTAGTGAnG TTCAAGTAAC ATATCAGTAA CAAGTTGATT	400

- (2) INFORMATION FOR SEQ ID NO: 3652:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid

(C) S	TRAND	EDNESS	: 0	double
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(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3652:

CATTGTCCAA AGGACAATCC ACAGCTTCGG TAATATGTTT AGCCCCGGA CATTTTCGGC 60
GCAGTGTCAC TCGACTAGTG AGCTATTACG CACTCTTTAA ATGATGGCTG CTTCTAAGCC 120
AACATCCTAG TTGTCTGGGC AACGCCACAT CCTTTTCCAC TTAACATATA TTTTGGGACC 180
TTAGCTGGTG GTCTGGGCTG TTTCCCTTTC GAACACGGAC CTTATCACCC ATGTTCTGAC 240
TCCCAAGTTA AATTAATTGG CATTCGGAGT TTGTCTGAAT TCGGTAACCC GAGAGGGGCC 300
CCTCGTCCAA ACAGTGCTCT ACCTCCAATA ATCATCACTT GAGGGCTAGC CCTAAAGCTA 360
ATTTCGGAGA GAACCAGCTA TCTCCAGGTT CGATGGAATT 400

(2) INFORMATION FOR SEQ ID NO: 3653:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3653:

GGTTCGGTCC TCCATTCAGT GTTACCTGAA CTTCAACCTG ACCAAGGGTA GATCACCTGG 60

TTTCGGGTCT ACGACCAAAT ACTAAACGCC CTATTCAGAC TCGCTTTCGC TACGGCTCCA 120

CATTTACTGC TTAACCTTGC ATCAAATCGT AACTCGnCGG TTCATTCTAC AAAAGGCACG 180

CCATCACCCA TTAACGGGCT CTGACTACTT GTAAGCACAC GGTTTCAGGTTCTATTTCAC 240

TCCCCTTCCG GGGTGCTTTT CACCTTTCCC TCACGGTACT GGTTCACTAT CGGTCACTAG 300

AGAGTATTTA GCCTTAGGAG ATGGTCCTCC CAGATTCCGA CGGAATTTCA CGTGCTCCGT 360

CGTACTCAAG nATCCACTCA AGAGAGACAA CATTTTCGAC 400

(2) INFORMATION FOR SEQ ID NO: 3654:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3654:

AAAGGTCCTA AATATAATTT TACAACTAAT AAATAGTGGC GGTGGAGGGG ATCGAACCCC 60

CGACCTCACG	GGTATGAACC	GTACGCTCTA	GCCAGCTGAG	CTACACCGCC	TTATATAGTT	120
TGTAAATAAT	ATGGTGGAGA	CTAGCGGGAT	CGAACCGCTG	ACCTCCTGCG	TGCAAAGCAG	180
GCGCTCTCCC	AGCTGAGCTA	AGCCCCATA	ATAATTACAG	TATATCGGGA	AGACAGGATT	240
CGAACCTGCG	ACCCCTTGGT	CCCAAACCAA	GTGCTCTACC	AAGCTGAGCT	ACTTCCCGTA	300
TAATTAACGC	GCCCGATAGG	AGTCGAACCC	ATAACCTCTT	GATCCGTAGT	CAAACGnTCT	360
ATCCAATTGA	GCTACGGGCG	CATATGTTTT	TATTGAAAAT			400

(2) INFORMATION FOR SEQ ID NO: 3655:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3655:

TATTGAAGCC	TGAGTCAACA	CGTACGCAAA	TCGATCAAAT	CATCGATGAA	GCGAAACATA	60
CAATTTTAAA	TCTGTATGTG	TGAATCCAAC	ACATGTTAAA	TATGCAGCAG	AGCnnCTAGC	120
TGATTCAGAG	GTGCTCGTTT	GTACGGTAAT	AGGATTCCCA	TTAGGTGCGT	CGACAACTGC	180
AACGAAAGCA	TTTGAAACAG	AAGATGCAAT	TCAAAATGGT	GCAGATGAAA	TTGACATGGT	240
CATCAACATC	GGCGCATTAA	AAGATGGACG	TTTTGATGAT	GTACAACAAG	ACATTGAAGC	300
AGTGGTTAAA	GCTGCGAAAG	GTCACACAGT	AAAAGTGGAT	TATTGAGACG	GTATTGTTGG	360
GACCATGACG	AAATTGTAAA	AGCGAGT CA	ATTAACCAAA			400

(2) INFORMATION FOR SEQ ID NO: 3656:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 530 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3656:

GATGAGTCGC TGNCTGATCT GAACGCTGTC TGAGNCCGAA CGCTACTGAA CTGAGTCGCT 60
GTCTGAGTCT GAATCGCTAT CTGAATCTGA GTCGCTATCT GAGTCTGAGT CGCTGTCTGA 120
GTCTGAGTCG CTGTCTGAGT CTGAATCGCT ATCTGAATCT GAGTCGCGT CTGAGTCTGA 180
GTCGCTATCT GAGTCTGAGT CGCTGTCTGA ATCTGAGTCG CTGTCTGAAT CTGAATCGCT 240
GTCTGAGTCT GAATCGCTAT CTGAGTCTGA ATCGCTATCT GAGTCTGAAT CACTGTCTGA 300
GTCCGAGTCA CTGTCTGAAT CTGACTCACT ATCTGATTCT GAGTCGCTAT CTGATTCTGA 360

GTCGCTGTCT	GAATCTGAAT	CACTGTCTGA	ATCCGAATCG	CTATCTGATT	CTGAGTCGCT	420
ATCTGAACCT	GAGTCGCTGT	CTGAGCCTGA	AGTCACTGGT	CTGAATCCGA	ATCCGGATCC	480
GGGTCTGGGG	CTTGGGTTCC	GGTTCTGGGT	CTGGGACTTG	GGTTCTGGGA		530

(2) INFORMATION FOR SEQ ID NO: 3657:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3657:

GTTTTAACTA CGCAAGACAT CGAÆGAGCT GACGGTGTCA TAATTGCAGC TGATAAACAA 60
GTTGATCTGT CCCGATTTGT TGGTAAACGG TTGATTAATG AAAATGTTCG CGAAGGGATT 120
CATAATCCGA GAGGTCTAAT TCAACGTATC ATTAATCAAG ATGCGCCTAT TTATCAATCT 180
GAAACAAATT ATCATTCGAA AGATCGCGGT AAGTCTAAAA ATGGTATTCAAATGGTGTAT 240
CAACATTTAA TGAACGGTGT ATCGTTTATG GTTCCTTTTA TCGTAGTTGG TGGACTCCTT 300
ATCGCCATCG CGCTGGACTC TAGGCGGTGA ACGACATCAA AAGGATTAGT CATCCCAGAT 360
GGATTCATTT TGGGAAATCC ATTGGAAAAC ATTGGGTAGT 400

(2) INFORMATION FOR SEQ ID NO: 3658:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 668 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3658:

GAAGAAGTTT ATGAAACGGT TATGAATAAG CCATACACTA GATATCCAGT GTACGAGGGA 60 GATATTGATA ACATTATTGG GGTGTTTCAT TCTAAATATC TGTTGGCTTG GAGTAATAAA 120 AAAGAAAATC AAATTACAAA CTATTCAGCT AAGCCATTAT TTGTGAATGA ACACAATAAA 180 GCTGAATGGG TATTACGTAA GATGACTATT TCTAGAAAAC ATTTAGCAAT TGTGTTGGAC 240 GAATTTGGTG GTACTGAAGC GATAGTGTCA CATGAAGACT TAATTGAAGA ATTATTAGGT 300 ATGGAAATTG AAGATGAGAT GGATAAAAAG GAAAAAGAAA AACTTTCTCA ACAGCAAATT 360 CMATTTCAAC AACGGAAAAA TCGCMACGTA TCTATATAAG GnGCGAACAG TATGTGGTA 420 ATAAGAATCG ACTTACTCAA ATGTTAAGTA TTGAATATCC AATTATACAA GCAGGTATGG 480

CAGGNAGTAC	GACACCGAAA	TTAGTTGCAT	CAGTAAGTAA	CAGTGGTGGG	TTAGGCACAA	540
TAGGCGCGGT	TACTTTAATA	CGCAGCAATT	GGAAGATGAA	ATAGATTATG	GTACGCCAAT	600
TAACGTCAAA	TTCTTTTGGC	GTAAATGTCT	TTGGTACCAA	GTCAACAATC	ATATACCAGT	660
AGTCAAAT						668

(2) INFORMATION FOR SEQ ID NO: 3659:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3659:

AAAAGAATGG TAAGTTGAAT	AAAGTATTGA	AATCAATTGC	CAATATCTTT	ATACCGTTGA	60
TTCCTGnATT TATTGGAGCT	GGATTAATTG	GTGGTATTGC	AGCAGTACTG	AGTAACTTAA	120
TGGTGGCAGG CTATATTTCA	GGTGCTTGGA	TTACGCAACT	TATAACAGTA	TTTAATGTCA	180
TTAAAGACGG TATGTTAGCA	TACTTAGCTA	TTTTCACTGG	TATTAATGCG	GCTAAAGAAT	240
TTGGTGCGAC ACCAGGACTT	GGTGGCGTGA	TTGGTGGTAC	AACGTTATTA	AC G GTATTG	300
CTGGTAAAAA TATTTTAATG	AATGTCTTCA	CTGGAGAACC	ATTGCAACCT	GGACAAnGTG	360
GGATTATTGG CGTTATTTTG	CCGTTTGGAA	TTTAAGTAAT			400

(2) INFORMATION FOR SEQ ID NO: 3660:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3660:

CTGAGCTAAT GGCTCTTCCA TGGTGCCGGC CAGAGGACTT GAACCCCCAA CCTACTGATT	60
ACAAGTCAGT TGCTCTACCA ATTGAGCTAG GCCGGCAATA TGTAAGAATA AATGGTGGAG	120
AATGACGGGT TCGAACCGCC GACCCTCTGC TTGTAAGGCA GATGCTCTCC CAGCTGAGCT	180
AATTCTCCGA TTTAAAACTG CCTGGCAACG TTCTACTCTA GCGGAACGTA AGTTCGGACT	240
ACCATCGACG CTAAGGAGCT TAACTTCTGTGTTCGGCATGGGAACAGGTGTGACCTCCTT	300
GCTATAGTCA CCAGACATAT GAATGTAATT TATACATTCA AAACTAGATA GTAAGTAAAA	360
GTGATTTTGn TTTCGCAAAA CATTTATTTT GGATTAAGTC	400

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3661:

TGATGTTGA TTAGCTCATA AATACTAAAT AATGTTTGTA ACTTATAGTTACGTTTTTTG 60

GAATTAACGT TGACATATTG TCATTCAGTT TTCAATGTTC ATTTTCTTA CCGACAAGAA 120

TTAATTATAC ATTTTATAA CATTTAAGTC AATAACTTTT TTTATCTTGT CCATTTTATT 180

TTTTAACCAA AATTTGATTA AAAAACTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG 240

TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA 300

CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATTTAT ACATTCAAAA CTAGATAGTA 360

AGTAAAAGTG ATTTTGCnTC GCAAACATTT ATTTTGATTA 400

(2) INFORMATION FOR SEQ ID NO: 36@:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 742 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3662:

CGCTCAACGT CTGCCTTCGT AATGGCTTTT GTAGAAATTC TAACTAAATA ATTTCGAATG 60 CTATCATTGA TTGTTTCAAC AGCTTGATGC TTTTGTTCAA GCTTTTTGAT CAATTTTTTA 120 TCGTCTTTTG TAATTTCGCG AATGTCTTCA AACATTGATA AGACAATCTG ACCCACATTT 180 TGTAATTCTT TTTGAGTTTC TTGTAATGCA ACACCAGGTG CGTGATAAAC AGATCTTTG 240 TTTAAGTGCT GAGGTTTATA GTCATCAGCA ATATCTTTAC CTGGGACAAG CTTTGTAACA 300 ATCCATGCTA AACCTGCTAC AAATGGTAAT TGAATCAAAG TATTTGTTAT GTTGAAGATA 360 CCATGTGATA CTGCAATCGT CATCGCTGGT TTTAAGTGCC ATAAATCTTG TAACAAACTA 420 ATCAAATGAA TCACAACTGG CAAGAAAATT GTGAAGATAA TTACCCCGAT TAAGTTAAAG 480 ATGACGTGTA CAAGCGCCGC ACGTTTTGCA GCGATTGAGC CGGCTAAACT AGCTAAGATA 540 GCTGTAATCG TGGTACCAAT GTTATCGCCT AGtAACACAG GGaTkGCTGC GTTTAAGCTA 600 ATTAAATCTT GTTGATAAAA TTCTTGTAAA AT&CAATCG TCGCACTTGA ACTTTGAACT 660 AGTGCTGTTA ACCCTGGCGC CGACAATGAC AGCGAGTATT GGGATTTGTA AGACATATCA 720

(2) INFORMATION FOR SEQ ID NO: 3663:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3663:

ATGAATTCAA	GCTTATTTAA	AACTCTTTAT	TCACTCGGTT	TTGCTTGGTA	AAACTATAT	60
TTTACTTACT	TATCTAGTTT	TCAATGTACA	ATTTCTTTTT	AGTCAAGCGC	TCGCATACTG	120
CTTTATTTTC	AAAAAATCAA	ATGCTCATTT	ACAAAAGTAA	ACTCCGCTTT	AATTTTTCTT	180
AATGCATTGT	CTAACAACCG	CTTTCTTTAA	AAAGAATAGA	TTGTCAAGCG	CTCGCATAAG	240
CAATATCACT	TTAACCAAAA	AATATTTGAA	TGTTAAATAA	ACATTCAnAA	CTGAATACAA	300
TATGTCACGT	nATTCCGCAT	CTTCTGAAGA	AGATGTTCCG	AATATATCCT	TAGAAAGGAG	360
GTGATCCAGC	CGCACCTTCC	GATACGGGCT	ACCTnGTnAC			400

(2) INFORMATION FOR SEQ ID NO: 3664:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 636 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3664:

AACTAATAGT	TCACTTTTAC	TTTTTTCTTT	TTCATTATTA	TCCATTATTT	TTTCACCGCC	60
AAAACGAATT	TCATGATGTT	AATTTAAATG	TTCTATGACA	AAATTAAGCA	ACGATGTTtT	120
ATATTTATTT	CCAACTATGT	CTAGATTAAA	TTTCTAAAAA	TAKACATCAT	TTAAAAGGAG	180
CTTGGGACAT	AAATCAATGT	CCTAGGGTCT	ATAATATTAT	AkTGCTAGTA	GTTGATGAA	240
TGAAAATGCG	CTTGCAACAA	GCTTTTTTCA	ACTCTAGTCA	GGGGCCCCAA	CACAGAGAAT	300
TTCGAAAAGA	AATTCTACAG	GCAATGCGAG	TTGGGGTGTG	GGCCCCAACA	CAGAGAATTT	360
CGAAAAGAAA	TTCTACAGGC	AATGCGAGTT	GGGGTGTGGG	CCCCAACACA	GAGAATTTCG	420
AAAAGAAATt	CTACAGGCAA	TGCGAGTTGG	GGTGTGGGCC	CCAACATAGA	GAAATGGaTT	480
CCCAaTTTCT	ACAGACAATG	CAAGTTGGCG	GGGCCCCAAC	ACAGAAGCTG	ACGAAAAGTC	540
AGCTTACAAT	AATGTGCAAG	TTGGCGGGGn	CCCAACACAG	AAGCTGACGA	AAAGTCAGCT	600
TACAATAATG	nGCAAGTTGG	CGGGGnCCCC	AACACA			636

(2) INFORMATION FOR SEQ ID NO: 3665:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 404 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3665:

TATCATTTCC	TGTTGCTAAA	ACAACAGCAT	GTATGCCATT	CATAACACCT	TTATTATGTG	60
TTGCTGCACG	ATGAATATCT	ACTTGGGCCA	ATACAGAAGC	ACGTTCCATT	CGTTTGGCAA	120
CCTCTTCTCC	AGTTCTCTCG	CCCCTTGC T A	AATCTTTAAC	ATCAATTTCG	CCTTGAATT	180
TAACAACGGA	CGCTGTTGCA	TGATTGGATA	AAATACTCAT	TAAAATGTCG	CTTTGGGAAA	240
tTCATTTTT	AAAAATGCAG	TTATGGCCTC	TAAAATCGTA	TTAAGCATAT	TAGCGCCCAT	300
AGCATCTTTC	GTATCAACAA	ATACTTTTAA	AGATAGTAAC	TGtTGcTCAG	GrAATGTakC	360
mAtCGCTATA	CGtTGGTAAC	CACCACCACG	CGCTTTAATA	GGAA		404

(2) INFORMATION FOR SEQ ID NO: 3666:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3666:

. 60	TTTGTAAAAC	AGTCGGCATA	TAGGCTATCT	TGAACGATAT	TAGCAATTAT	GTGGTTCCAG
120	GGACATAAAT	AAAGAGGTTG	GAATAATATA	CAGGAATAAC	TAAATATCAA	AAGATCCAAT
180	CTGTTCTCTA	TATCTTACTG	AATAGAAAA	GATAATTTTC	ACAGCAGTAA	СССТАААААА
240	CAGCCTCGGT	GGTGCCGTCT	GCTTTCCTAG	GAATGGCTTC	ACTTCGTATT	TTTATACAAT
300	AACGTGTAAT	ACTACGTATT	CGCCATTAAT	TCAGGAGTCT	CACTGCTCCC	CTTCGACTGG
360	TAAATGTAA	AACTTGCACA	CACTTTGCCC	AAAAATAAGA	AATACTTTAA	TTTACTTTGA
400			CCTnCGTATA	GTGTTGGATC	ATAAATTTCT	ATTCAATAAA

(2) INFORMATION FOR SEQ ID NO: 3667:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi)	SEQUENCE	DESCRIPTION:	SEQ	ΙD	NO:	3667:

CCAACAAATC TGTCTGTCGC	ATCGCCTTTG	TCGTTCCAAA	TAAATATGTA	CAAACGAATC	60
CACCAGCATA CGCnCCAAGT	AATCCTGCAA	TATAACCTAA	ATACATATTA	TCTGAGATTA	120
ATGGTAATAG TGACACACCA	CTTGGGCCTA	TTGCTTTG G C	ACCAATATGT	CCAATTCCAC	180
CTATTACAGC GCCACCAATA	CCACCACCAA	TACAAGCAGT	TAAGAAAGGT	CGACCTAATG	240
GCAAAGTCAC ACCATAGATT	AATGGTTCTC	CGATACCTAG	GGAAACCAAC	TGGCAATGCA	300
CCTTTTAAAG TATTACGTAA	TGTTGTGTTG	CGGTTACAT	CTTACCCAAA	GTGCTAATGC	360
GGGCACCTAC TTGGTCCCAG	CACCAGCCAT	CGCTGCAATT			400

(2) INFORMATION FOR SEQ ID NO: 3668:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3668:

ACTAAGATGT	TTCAGTTCTC	CGGGTGTGCC	TTCTGATATG	CTATGTATTC	ACATATCGAT	60
AACATGACAT	AACTCATGAC	TGGGTTTCCC	CATTCGGAAA	TCTCTGGATC	AAAGCTACT	120
TACAGCTCCC	CAAAGCATAT	CGTCGTTAGT	AACGTCCTTC	ATCGGCTTCT	AGTGCCAAGG	180
CATCCACCGT	GCGCCCTTAA	TAACTTAATC	TATGTTTCCA	TCCTACAGGA	AACGCGTTAT	240
TAATCTTGTG	AGTGTTCTTT	CGAACACTAG	CGATTATTTC	TTATGAATTC	AAGCTTATTT	300
AAAACTCTTT	ATTCACTCGG	TTTTGCTT G G	TAAAATCTAT	ATTTTACTTA	CTTATCTAGT	360
TTTCAATGTA	CAATTTCTTT	TTAGTCAAGC	GCTCGCATAA			400

(2) INFORMATION FOR SEQ ID NO: 3669:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3669:

GTAGCCTGAT	ATTGAAATTC	GGCACAGCTT	GTACAGGATA	GGTAGGAGCC	TTTGAAACGT	60
GAGCGCTACT	TACTGGnAGG	CGCTGGTGGG	ATACTACCCT	AGCTGTGTTG	GCTTTCTAAC	120
CCGCACCACT	TATCGTGGTG	GGAGACAGTG	TCAGGCGGGC	AGTTTGACTG	GGGCGGTCGC	180

CTCCTAAAAG	GTAACGGAGG	CGCTCAAAGG	TTCCCTCAGA	ATGGTTGGAA	ATCATTCATA	240
GAGTGTAAAG	GCATAAGGGA	GCTTGACTGC	GAGACCTACA	AGTCGAGCAn	GGTCGAAGA	300
CGGACTTAGT	GATCCGGTGG	TTCCGCATGG	AAGGGCCATC	GCTCAACGGA	TAAAAGCTAC	360
CCCGGGGGAT	AACAGGCTTA	TCTCCCCAA	GAGTTCACAT			400

(2) INFORMATION FOR SEQ ID NO: 3670:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3670:

ATACTTTACA TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA GCCATCTTTC 60

TTTGTGTTTG CTTTATTTT GACGTTTTAG ACATAAAAA AGAGACCTTG CGGTCTCAAT 120

GCGGCTCATC GCATCCACTT TTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTCG 180

ACTACCATCG ACGCTAAGGA GCTTAACTTC TGTGTTCGGC ATGGGAACAG GTGTGACCTC 240

CTTGCTATAG TCACCAGACA TATGAATGTA AATATACAT TCAAAACTAG ATAGTAAGTA 300

AAAGTGATTT TGCTTCGCAA AACATTTATT TTGATTAAGT CTTCCGATCG ATTAGTATTC 360

CGTCAGCTCC ACATGTCACC ATGCTTCCAC CTCCGAACCT 400

(2) INFORMATION FOR SEQ ID NO: 3671:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3671:

CACCCGAAGA	TATTGCTCAG	ACAAAGTCAT	CATATACAGG	AAAGTATTTA	AAAAAGTAC	60
TTGAACGAGA	TAAACAAAAT	ACTGAAGATA	AATAAGATTA	AAAGAAGTGA	AGGATGTTAT	120
AAATTTATCC	TTCGCTTCTT	TTTATTAATT	TAGTAATGAA	TAGTAGAAAG	AAAAGATGCG	180
TAAAAAGAAT	TATGTTAAGA	TAGGGTCAAT	CTAGAGTAGT	TAAACATAAA	TCGAACTGGG	240
AGTGGGGACA	GAAATGATAA	AGAATCACTA	ATGATTTATT	ATGTAGTGGT	TCTTTGTCCA	300
TTAGCCACAG	CTATTGTGTA	CTTAAAAATA	GGAATGCATG	AGTGCACCnA	nAGGnAGAAT	360
ACTAATTTCC	AAAGAAAAAG	TATTCCTTAT	GTTGGGGCCC			400

(2) INFORMATION FOR SEQ ID NO: 3672:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 461 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3672:

TGGACCTGTA AAAGGAGAG	CT CGATTGTAGA	AAAAGAAGAG	ATTCCATTCG	AGAAAGAACG	60
TAAATTTAAT cCTGATTTA	AG CmCCaGGGAC	aGAAAAAGTA	m C mAGaGAAG	GACaAAAAGG	120
TGAGAAGACA ATaACGACA	AC CAACACTAAA	AAATCCATTA	ACTGGAGTAA	TTATTAGTAA	180
AGGTGAACCA AAAGAAGAA	AA TCACAAAAGA	TCCGATTAAT	GAATTAACAG	AATAGGACC	240
AGAAACGATA ACACCAGG	C ATCGAGACGA	ATTTGATCCG	AAGTTACCAA	CAGGAGAGAA	300
AGAAGAAGTT CCAGGTAAA	AC CAGGAATTAA	GAATCCAGAA	ACAGGAGACG	TaGTTAGACC	360
ACCGGTCGAT AGCGTAACA	A AATATGGACC	TGTAAAAGGA	GACTCGATTG	TAGAAAAAGA	420
AGAGATTCCA TTCAAAACG	T AAATTTAATC	CGGATTTAGC	A		461

- (2) INFORMATION FOR SEQ ID NO: 3673:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3673:

TTATGAATT	CAAGCTTATT	TAAAACTCTT	TATTCACTCG	GTTTTGCTTG	GTAAAATCTA	60
ATTTTACTT	ACTTATCTAG	TTTTCAATGT	ACAAATAATG	GTGGAGACTA	GCGGGATCGA	120
CCGCTGACC	TCCTGCGTGC	AAAGCAGGCG	CTCCCAGC	TGAGCTAAGC	CCCCAAAnAG	180
TATTAAATT	AATGGGGGC	CTAAGTGGAC	TCGAACCACC	GACCTCACGC	TTATCAGGCG	240
GCGCTCTAA	CCAGCTGAGC	TATAGGCCCA	TTAATTTGAA	TGAACAAACA	TTCAAAACTG	300
ATACAATAT	GTCACGTTAT	TCCGCATCTT	CnGAAGAAGA	TGTTCCGAAT	ATATCCTAG	360
AAGGAGGTG	ATCCAGCCGC	ACCTTCCGAn	ACGGCTACCT			400

- (2) INFORMATION FOR SEQ ID NO: 3674:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3674:

ACATGAAGAC TTAATTGAAG AATTATTAG	G TATGGAAATT GAAGATGAGA TGGATAAAAA	60
GGAAAAAGAA AAACTTTCTC AACAGCAAA	T TCAATTTCAA CAACGGAAAA ATCGCAACGT	120
ATCTATATAA GGAGCGAACA GCTATGTGG	G AATAAGAATC GACTTACTCA AATGTTAAGT	180
ATTGAATATC CAATTATACA AGCAGGTAT	G GCAGGAAGTA CGACACCGAA ATTAGTTGCA	240
TCAGTAAGTA AACAGTGGTG GGTTAGGCA	C AATAGGCGCG GTTACTTTAA TACGCGCCAA	300
TTGGAnGATG GANATNGATT ATGTACGCC	A TTACGTCAA ATTCTTTTGG CGTAAATGTC	360
TTTGTACCAA GTCAACAATC ATATACCAG	T AGTCCAAATT	400

(2) INFORMATION FOR SEQ ID NO: 3675:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3675:

AGCTAGGCCG	GCAATATGTA	AGAATAAATG	GTGGAGAATG	ACGGGTTCGA	ACCGCCGACC	60
CTCTGCTTGT	AAGGCAGATG	CTCTCCCAGC	TGAGCTAATT	CTCCGATTTA	AAATGCCTG	120
GCAACGTTCT	ACTCTAGCGG	AACGTAAGTT	CGACTACCAT	CGACGCTAAG	GAGCTTAACT	180
TCTGTGTTCG	GCATGGGAAC	AGGTGTGACC	TCCTTGCTAT	AGTCACCAGA	CATATGAATG	240
TAATTTATAC	ATTCAAAACT	AGATAGTAAG	TAAAAGTGAT	TTTGCTTCGC	AAAACATTTA	300
TTTTGATTAA	GTCCTCGTCG	TTAGTATTCG	TCAGCTCCAC	ATGTCACCAT	GCTTCCACCT	360
CGGACCTATT	AACCTCATCA	ACC T TGAGGG	nTCTTATAAA			400

(2) INFORMATION FOR SEQ ID NO: 3676:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3676:

TGGACAATGG TAGGAGAGCG TTCTAAGGGC GTTGAAGCAT GATCGTAAGG ACATGTGGAG

CGCTTAGAAG TGAGAATGCC GGTGTGAGTA GCGAAAGACG GGTGAGAATC CCGTCCACCG 120

ATTGACTAAG	TTTCCAGAGG	AAGGCTCGTC	CGCTCTGGGT	TAGTCGGGTC	CTAAGCTGAG	180
GCCGACAGCG	TAGGCGATGG	ATAACAGTTG	ATATTCCTGT	ACCACCTATA	ATCGTTTTAA	240
TCGATGGGGG	GACGCATAGG	ATAnGCGAAn	GTGCGATTGG	ATTGCACGTC	TAAGAGTAA	300
GGCTGAGTAT	TAGGCAAATC	CGGTACTCGT	TAAGGCTGAG	CTGTGATnGG	GAGAAGACAT	360
TGAGTCTTCG	AGTCGTTGAT	TTCACACTGC	CGAGAAAAGC			400

- (2) INFORMATION FOR SEQ ID NO: 3677:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3677:

AAAGCGCCAC ATGGTGCCAA GTCTGGAGTT AATCCAGCAA TTGCTTGTTT TAAGCTATTA 60
TATTTTTCTT CTACTTTTGT TTTTCTGCG GCAATTTGTT GGTCAGTCGC ATCACCATTG 120
TTAATAACAT TTTGTGCATT TGTTGATTCT GTTTGACCCG CACGTTTAGC ATTTTCATAT 180
GCTTGGATTG ATGATTGTGT CATACCATCA GTAGTTACTG ATTTATTGAT TTCTTCATCA 240
AGTTTCGTCT TAGCAGTTTT TAAAGCACTA TATCAGCTA AAGGTACTAA TTGGATTAAT 300
TGCTTGCGTT AATCGCTCAT TGACACGATT TACATTTGTT AACGCAGATT GCACTTCTTG 360
TACTGTTCTT AATGGCTTT TGGAATAATA GCATTAGCGC 400

- (2) INFORMATION FOR SEQ ID NO: 3678:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 648 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3678:

ACAGTCAATT GnTCTACCAA TTGAGCTAGG CCGGTTAAGA AATGGTTCCA GACAGAGTC 60
GAATGCCGAC ACATGGAGCT TCAATCCATT GCTCTAACCA ACTGAGCTAC TGAACCATAA 120
TAAAAATGTA ATGATGGCGG TCTCGACGGG AATCGAACCC GCGATCTCnG CGTGACAGGC 180
AGGCGTGTTA ACCGCTACAC TACGAGACCT ATAAAATATT GCGGGAGGCG GATTTGAACC 240
ACCGTACTTC GGGTTATGAG CCCGACGAGC TACCGAACTG CTCCATCCCG CGATAATAAA 300
AAATAATGGC GGAGGAAGAG GGATTCGAAC CCCCGCGGCC CGTTAAGGCC tGTCGGTTTT 360
CAAGACCGAT CCCTTCAGCC GGACTTGGGT ATTCCTCCAT TATTATAGGT AAATCGCTAT 420

TAATTATAAA	ATTAAATGGC	GGTCTCGACG	GGATCGAAC	CCGCGATCTC	tGCGTGACAG	480
GCAGGCGTGT	TAAyCGCTAC	ACTACGAGAC	CATTAGTAAA	ACGGAGGAAG	AGGGATTCGA	540
ACCCCCGCGA	GCCGTTAAGC	CCCTGTCGGT	TTTCAAGACC	GATCCCTTCA	GCCGGGACTT	600
GGGGTATTCC	TCCAAAATTA	TATGGGACCT	TGCAGGACTC	GAACCTGC		648

(2) INFORMATION FOR SEQ ID NO: 3679:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3679:

CTGATCCCGT TGTGCTTCAC ACCCGATAGA TAGGGATTTA CAGATAAATT CAGGTCTCTT 60

CCACGTCATA TTTGGACCCA TCGAAAATTC GGGTTCTCAA ATCATCGAAC ATAACAAAAG 120

AAGCTAAGCA ACATGTAGGC CGTTGTCACT TAACTTCTTG TTTTTCCGAT GACAGCTTCT 180

ATTTAGAGAA TGTCATGATT ATTTTATATT CACTTCAATG TTATCAATAT TAGTGCCATC 240

TATGACATCT GCCATGCGAT TTTCTTGTAA TTTTTTGTGC AATTCAAACG TGTACTTTCC 300

ACCGTTTTC ATTTTAATAA CAATTTTACC TGAACCAACG TTACCGTACA GATTATTTT 360

TTCAATAAGT TGTTTCTCA ATTTAAAATC AAGTTTTTC 400

(2) INFORMATION FOR SEQ ID NO: 3680:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3680:

TCAATGCGG	C TCATCGCATT	CATTTCTTGT	CTAGCAACGT	TCTACTCTAG	CGGAAnTAAG	60
TTAGCTACC	A TCCTCGCTAA	GAACCTTTCT	TGACTTGTGA	CAATCGCTTG	CTTCTTTCCT	120
CTCCTTCGG	C TCTCGCTTAC	TCATTTAGCT	CTACTAAACT	CGTTGCGCTC	TTTTCCGTT	180
TCGTCAGAT	T CAAACGTTTT	CACTTCGCCA	AGCCATTTTT	CTTTGTGTTT	ACTTTTTATT	_ 240
TTGACGTTT	T AGACATAAAA	AAAGAGACCT	CACGGTCTCA	ACTTGCCTGG	CAACGTTCTA	300
CTCTAGCGG	A AGTAAGTTGG	CTACCATCGT	CGCTAAAGAC	CTTTCTTGAC	TTGTGACAAT	360
CGCTTGGCT	T CInTCCTCTC	CTTCGGnTCT	CGGCTTACTC			400

(2) INFORMATION FOR SEQ ID NO: 3681:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3681:

TCTTTCCTCT	CCTTCGGCTC	TCGCTTACTC	ATTTAGCTCT	ACTAAACTCG	TTGCGCTCTT	60
TTCTCGTTTC	GTCAGATTCA	AACGTTTTCA	CTTCGCCAAG	CCATTTTTCT	TTGTGTTTAC	120
TTTTTATTTT	GACGTTTTAG	ACATAAAAAA	ÆAGACCTCA	CGGTCTCAAC	TTGCCTGGCA	180
ACGTTCTACT	CTAGCGGAAC	GTAAGTTGGC	TACCATCGTC	GCTAAAGACC	TTTCTTGACT	240
TGTGACAATC	GCTTGCTTCT	TTCCTCTCCT	TCGGCTCTCG	CTTACTCATT	TAGCTCTACT	300
AAACTCGTTG	CGCTCTTTTC	TCGTTTCGTC	AGATTCAAAC	GTTTTCACTT	CGCCAAGCA	360
TTTTTCTTTG	TGGTTTACTT	TTTATTTTGA	CGGTTTAGGC			400

(2) INFORMATION FOR SEQ ID NO: 3682:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 414 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3682:

TTGAACATGT	TGAATCTAAT	GAAATTCTTG	TTCGTCGTCT	AGTTGAAGAG	AACGGCGTT G	60
AGCATGAAGG	TGAATTAGAT	CGCTATCCAT	TAGCTAAATT	TAAACGTTCA	AACTCAGGTA	120
CATGTTACAA	CCAACGTCCA	ATCGTTGCAG	TTGGAGATGT	TGTTGAGTAT	AACGAGATTT	180
TAGCAGATGG	ACCATCTATG	GAATTAGGAG	AAATGGCATT	AGGTAGAAAC	GTATAGTTGG	240
TTTCATGACT	TGGGACGGTT	ACAACTATGA	GGATGCCGTT	ATCATGAGTG	AAAGACTTGT	300
GAAAGATGAC	GTGTATACTT	CTATTCATAT	TGÆGAGTAT	GAATCAGAAG	CACGTGATAC	360
TAAGTTAGGA	CCTGArGAAA	TCACAAGaGA	TATTCCTAAT	GTTTCTGAAG	TGCA	414

- (2) INFORMATION FOR SEQ ID NO: 3683:
 - (i) SEQUENCE CHARACTERISTICS:
 - (B) TYPE: nucleic add
 - (C) STRANDEDNESS: double

(A) LENGTH: 400 base pairs

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3683:

TTGGAATTTC	TCCGCTACCC	TCAGTTCATC	CGCTCACTTT	TCAACGTAAG	TCGGTTCGGT	60
CCTCCATTCA	GTGTTACCTG	AACTTCAACC	TGACCAAGGG	TAGATCACCT	GG T TCGGGT	120
CTACGACCAA	ATACTAAACG	CCCTATTCAG	ACTCGCTTTC	GCTACGGCTC	CACATTTACT	180
GCTTAACCTT	GCATCAAATC	GTAACTCGCC	GGTTCATTCT	ACAAAAGGCA	CGCCATCACC	240
CATTAACGGG	CTCTGACTAC	TTGTAAGCAC	ACGGTTTCAG	GTTCTATTTC	ACTCCCCTTC	300
CGGGGTGCTT	TTCACCTTTC	CCTCACGGTA	CTGGGTTCAC	TATCGGTCAC	TAnGAGAGTA	360
TTTAAGCCTT	AnGAGATGGT	CCTCCCAGAT	TCCCGACGGG			400

(2) INFORMATION FOR SEQ ID NO: 3684:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 528 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3684:

GATnTATGAT GA	AAAAACTAT	CTGACTGCTG	TTTCACTTTT	TATAAGACTT	CTGAATGTCT	60
TCACTTATAC T	rctagtcac	AGATTnAAAT	AATCAAAAGT	GCACATTATT	AAAATATCAA	120
TTTCACACTC A	ATGCGGCTC	ATCGCATTCA	TTTCTTGTCT	AGCAACGTTC	TACTCTAGCG	180
GAACGTAAGT TA	AGCTACCAT	CCTCGCTAAG	AACCTTTcTT	GACTTgT G AC	AATCGCTTGC	240
TTCTTTCCTC TO	CCTTCGGCT	CTCGCTTACT	CATTTAGCTC	TACTAAACTC	GTTGGCTCT	300
TTTCTCGTTT CO	GTCAGATTC	AAACGTTTTC	ACTTCGCCAA	GCCATTTTTC	TTTGTGTTTA	360
CTTTTTATTT TO	GACGTTTTA	GACATAAAAA	AAGAGACCTC	ACGGTCTCAA	CTTGCCTGGG	420
CAACGTTCTA CT	CTAGCGGA	ACGTAAGTTG	GCTACCATCG	TCGCTAAAGA	CCTTTCTTGA	480
CTTGTGACAA TC	GCTTGCTT (CTnTCCTCTC	CTTCGGCTCT	CGGTTACT		528

(2) INFORMATION FOR SEQ ID NO: 3685:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3685:

AAATTATGGT CGATTGCGAA TGATTTAAGA GGGAnCATGG ATGCGAGTGA ATTCCGTAAT 60

TACATTTTAG GCTTGATTTT	CTATCGCTTC	TTATCTGAAA	AAGCCGAACA	AGAATATGCA	120
GATGCCTTGT CAGGTGAAGA	CATCACGTAT	@AGAAGCAT	GGGCAGATGA	AGAATATCGT	180
GAAGACTTAA AAGCAGAATT	AATTGATCAA	GTCGGTTACT	TCATTGAGCC	ACAAGATTTA	240
TTCAGTGCGA TGATTCGTGA	AATTGAAACG	CAAGATTTCG	ATATAGAGCA	TCTAGCGACG	300
GCGATTCGCA AAGTTGAAAC	ATCTACATTA	GGTGAnGAAA	GTGAAAATGn	CTTTAT G GG	360
CTGTTCAGCG ATATGGATTT	GAGTTCAACG	CGGCTAGGTA			400

(2) INFORMATION FOR SEQ ID NO: 3686:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 403 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3686:

TTAAATTATT	GGTCTATCGG	TTCTTGGGGT	GGCCATGGTA	TCTGTTCACT	CTTCGGTGGT	60
GCAGTTGCGA	CAACTATGGG	TTGGAGATGG	ATTTTCATCT	TCTCAATTAT	CGTTGCCGTA	120
CTTTCAATGT	TACTCATCAA	AGGGACGCCT	GAAACGAAAT	CAGAAATTAC	CAATACACAT	180
AAATTTGACG	TTGCAGGGCT	AATTGTTCTA	GTAGTTATGT	TGCTAAGTTT	AAACGTTGTC	240
ATTACTAAAG	GTGCAGCACT	TGGTTACACA	TCATTATGGT	TCTTTGGTTT	GATTGCAATC	300
GTAATTGTAG	CATTCTTTAT	TTTCTTAAAT	GTTAGAAAA	AAGTAGAT AA	TCCACTTATT	360
GATTTTAAAT	TATTGAAAAT	AAACCATATA	CAGGTGCAAC	GGT		403

(2) INFORMATION FOR SEQ ID NO: 3687:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 449 base pairs
 - (B) TYPE: nucleic add
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3687:

TATGAGCCCG	ACGAGCTACC	GAACTGCTCC	ATCCCGCGAT	AATAAAAAAT	AATGGCGGAG	60
GAAGAGGGAT	TCGAACCCCC	GCGGCCCGTT	AAGGnCCTGT	CGGTTTTCAA	GA C GATCCC	120
TTCAGCCGGA	CTTGGGTATT	CCTCCATTAT	TATAGGTAAA	TCGCTATTAA	TTATAAAATT	180
AAATGGCGGT	CTCGACGGGA	ATCGAACCCG	CGATCTCCTG	CGTGACAGGC	AGGCGTGTTA	240
ACCGCTACAC	TACGAGACCA	TTAGTAAAAC	GGAGGAAGAG	GGATTCGAAC	CCCCGCGAGC	300
CGTTAAGCCC	CTGTCGGTTT	TCAAGACCGA	TCCCTTCAGC	CGGACTTGGG	TATTCCTCCA	360

AAATTATATG GACCTTGCAG GACTCGAACC TGCGACCGAA CGGTATGAGC CGTAGCnCTA	420
ACCACTGGGC TAAAGTCCTA ATATAATTT	449
(2) INFORMATION FOR SEQ ID NO: 3688:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3688:	
AAAACGTCGT AATATGCAAA TTGAAGGTGC CAAGGTTGTT ATTCAAGGTT TCnATAATGC	60
CGGAAGTTTC TTAGCTAAAT TCTTATATGA TTTAGGTGCA AAAATTGTAG GTATCTCTGA	120
TGCTTACGGT GCATTACACG ATCCAAATGG CTTAGATATA GATTATTTAT TAGACCGTCG	180
AGATAGTTTT GGTACGGTAA CAAATTTATT TGAAGAAACA ATCTCAAATA AAGAATGTT	240
TGAATTAGAT TGTGACATTT TAGTACCAGC GGCTATTTCA AACCAAATTA CAGAAGACAA	300
TGCACATGAT ATTAAAGCTA GTATCGTTGT TGAAGCTGCT AATGGACCTA CAACACCAGA	360
AGCAACACGT ATTTTAACTG AACGTGGTAT ATTATTAGTT	400
(2) INFORMATION FOR SEQ ID NO: 3689:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3689:	
CACGCTTATC AGGCGTGCGC TCTAACCAGC TGAGCTATAG GCCCATTAAT TTGAATGAAC	60
AAACATTCAA AACTGAATAC AATATGTCAC GTTATTCCGC ATCTTCTGAA GAAGATGTTC	120
CGAATATATC CTTAGAAAGG AGGTGATCCA GCCGCACCTT CCGATACGGC TACCTTGTTA	180
CGACTTCACC CCAATCATTT GTCCCACCTT GACGGCTAG CTCCTAAAAG GTTACTCCAC	240
CGGCTTCGGG TGTTACAAAC TCTCGTGGTG TGACGGGCGG TGTGTACAAG ACCCGGGAAC	300
GTATTCACCG TAGCATGCTG ATCTACGATT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT	360
TGCAGACTAC AATCCGAACT GAGAACnACT TTATGGGGAA	400

- (2) INFORMATION FOR SEQ ID NO: 3690:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 553 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION SEQ ID NO: 3690:

GCNGCGTTTT AGGCCCATTC GGTTACCCCC nTTCCATAAA TGGTGCCCGG CCAGAGGACT 60 TGAACCCCC AACTTACTGA TTACAAGTCA GTTGCTCTAC CAATTGAGCT AGGCCGGCTA 120 AGAAATGGTT CAGGACAGAG TCGAACTGCC GACACATGGA GCTTCAATCC ATTGCTCTAC 180 CAACTGAGCT ACTGAACCAT AATAAAAATG TAATGATGGC GGTCTCGACG GGAATCGAAC 240 CCGCGATCTC tGCGTGACAG GCAGGCGTGT TAACCGCTAC ACTACGAGAC CTATAAAATA 300 TTGCGGGAGG CGGATTTGAA CCACCGACTT CGGGTTATGA GCCCGACGAG CTACCGAACT 360 GCTCCATCCC GCGATAATAA AAAATAATGG CGAGGAAGA GGGATTCGAA CCCCCGCGGC 420 CCGTTAAGGC CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC 480 ATTATTATAG GTANATCGCT ATTAATTATA ANATTAAAAT GGCGGTCTCG ACGGGAATCG 540 AACCCGCGGA TCT 553

(2) INFORMATION FOR SEQ ID NO: 3691:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3691:

TCAATGCGGC TCATCGCATC CATTTTTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA 60
GTTGGCTACC ATCGACGCTA AGAACCTTTC TTGACTTGTG ACAATCGCTT GCTTCTTCC 120
TCTTCTTCGG CTCTCGCTTA CTCATTTAGC TCTACTAAAC TCGTTGCGCT CTTTTCTCGT 180
TTCGTCAGAT TCAAACGTTT TCACTTCGCC AAGCCATTTT TCTTTGTGTT TGCTTTTTAT 240
TTTGACGTTT TAGACATAAA AAAAAGAGAC CTTGCGGTCT CAATGCGGCT CATCGCATCC 300
ATTTTTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG TTCGGACTAC CATCGACGCT 360
AAGGGAGCTT AACTTTCTGT GTTCGGGCAT GGGGACAGG 400

(2) INFORMATION FOR SEQ ID NO: 3692:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 410 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi)	SEOUENCE	DESCRIPTION:	SEO	ΙD	NO:	3692:
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TCGAATACTG	TCATGAAGTA	ATTTCTCTAT	TCTACGACCA	GAAAATACAG	ATTGAGTATA	60
TGCATATAAG	ATGTTTTTAA	CATCATTTTT	GGATGATAGG	ATGTTGCACC	ACGATGATGT	120
CTGAATTCAT	CGAATTCCTA	TCAGGTATCG	TTTCAACAAT	TTCATTAACA	TATO C GAAA	180
TATCATTTTG	AGAATTCTAA	CGAnTTTCCT	ATTGGTAGTG	TAAGTTGGGG	TCATGTTATA	240
ATTTTTATAC	ATAAGGCACC	TCTTTAATTT	AGTTTAGTAG	TATTTATTAA	ATTATACGAG	300
GGACCCAACA	CAGAAAATTC	ATTTTATTGa	ATTTTACATT	TATGTGmCAA	GTTGGGaAAA	360
ATGTCTTATT	TTTTCAAAGT	ATTTAAAAGT	AAAaTTACAT	GTTAATACGT		410

(2) INFORMATION FOR SEQ ID NO: 3693:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 425 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3693:

ACTTCATATA ATTTATGAAA TAAACCTGTC AATTTTGGAT TGATTATGCT TTGTGATTC	r 60
TTTTATTTCT GCGTAATAAC GCTAAACCTA AAATGCTAAA TAATCCGCCG AACAACATG	120
CGTTGTTTGT TGATTCTTCT CCACCTGTTT CAGTAGTTCA GATTTCTTAG ATTGTGCTTT	180
TTTAGTTGGT ACCACTGCTT TAACCTTTTC ATTGATTTCA ATAACAGGTG TTACTACTT	Γ 240
ACCTTGTTCC ACTGGTTTAG AAGGTTTTTT AGGTTCTTCT TTAGCAGGTG GTaTTGGTT	т 300
ACCAGGTTCA GTTGGTACCT CTGGCGTTGG CGGTGTTGGT GTTTCCGGCT CGCTTGEAC	360
TTCTGGTGTC GGTGGTGTTG GGTGTTTnCC GGCTTCGCTT GGTACTTCTG GGTGTTCGG	т 420
GGGCG	425

(2) INFORMATION FOR SEQ ID NO: 3694:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ÍD NO: 3694:

GCATCGTTGC CTTGGTAAGC CGTTACCTTA CCAACTAGCT AATGCAGCGG GAGTCCATCT

60

ATAAGTGACA GCAAGACCGT CTTTCACTTT TGAACCATGC GGTTCAAATn ATT	ATCCGGT 120						
ATTAGCTACG GTTTCCCGAA GTTATCCCAG TCTTATAGGT AGGTTATCCA CGT	rgttactc 180						
ACCCGTCCGC CGCTAACATC AGAGAAGCAA GCTTCTCGTC CCGTTCGCTC GAC	CTTGCATG 240						
TATTAGGCAC GCCGCCAGGT TCCATCCTGA GCGGGATCA AACTCTCCAT AAAA	AATTATG 300						
ATGTTTGATT AGCTCATAAA TACTAAATAA TGTTTGTAAC TTATAGTTAC GTT	TTTTTGGG 360						
AATTAACGTT GGACATATTG TCATTCCAGT TTTCAATGTT	400						
(2) INFORMATION FOR SEC ID NO: 3695.							

(2) INFORMATION FOR SEQ ID NO: 3695:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3695:

ACCTAATATA TAGACAGGTT CATCACTTAA TGACTTTGCA AGTTCGGCAA TGTCTGTGC 60 GTCGCGTTTG ACACGATAAT CACTGTCAGG GTTTGAAGCG GAATCAGGGA GTGGTTCAGT 120 TAACTCGCTT TCTCCATAAT CACGACGATC AACGGCTACA ACAGTAAAAT GGTCTTTTAA 180 CTGTTCTGCA AGAGGCAGAA AAATGTCTCC GGTACCGTTT GCACCAGGAA TAAAGATGAG 240 CACGGGTCCT TGTCCGACTT GGTGGTATCG TAATTTAGCG CCTTGTAATT CTAAAGTTTC 300 CATATTCAAT GACCTCCATT TGTTAATTGT TAGGTGATAA ACCTAATAAT TTAGCACCAT 360 TTGGTATAAC TTAATTTCnC CTTTTCCTTC ATCnGGTTAA 400

(2) INFORMATION FOR SEQ ID NO: 3696:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3696:

TTCTTTCTCT TCCTCCGGGT ACTAAGATGT TTCAGTTCTC CGGGTGTGCC TTCTGATATG 60 CTATGTATTC ACATATCGAT AACATGACAT AACTCATGCT GGGTTTCCCC ATTCGGAAAT 120 CTCTGGATCA AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA 180 TCGGCTTCTA GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTCCAC 240 CATTTTTATA AGTCAAACGC TCACATACGG CTTCGTTTTC ATTATTTTAA ATGCTCATTT 300 ACATAAGTAA ACTCTGCTTT AAAATAATTT AACTCATTGT CTGCTAAACG TTTTCTTTTA 360

TAAAAAGATT	TAAACGCGTT	GATTAAnCTG	TGAGTGTTCT

400

- (2) INFORMATION FOR SEQ ID NO: 3697:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3697:

CACTTTAACC	AAAAAATATT	TGAATGTTAA	ATAAACATTC	AAAACTGAAT	ACAATATGTC	60
ACGTTATTCC	GCATCTTCTG	AAGAAGATGT	TCCGAATATA	TCCTTAGAAA	GGAGGTGATC	120
CAGCCGCACC	TTCCGATACG	GCTACCTTGT	TACGACTTCA	CCCCAATCAT	TTGTCCCACC	180
TTCGACGGCT	AGCTCCTAAA	AGGTTACTCC	ÆCGGCTTCG	GGTGTTACAA	ACTCTCGTGG	240
TGTGACGGGC	GGTGTGTACA	AGACCCGGGA	ACGTATTCAC	CGTAGCATGC	TGATCTACGA	300
TTACTAnCGA	TTCCAnCTTC	ATGTAGTCGA	GTTGCAGACT	ACAATCCGAA	CTGAGAACAA	360
CTTTATGGGA	TTTGCTTGAC	CTCGCGGTTT	CGCTnCCCTT			400

- (2) INFORMATION FOR SEQ ID NO: 3698:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION SEQ ID NO: 3698:

AAGGGAATCG	AATTTTCTTT	CTCTTCCTCC	GGGTACTAAG	ATGTTTCAGT	TCTCCGGGTG	60
TGCCTTCTGA	TATGCTATGT	ATTCACATAT	CGATAACATG	ACATAACTCA	TGCTGGGTTT	120
CCCCATTCGG	AAATCTCTGG	ATCAAAGCTT	ACTTACAGCT	CCCCAAAGCA	TATCGTCGTT	180
AGTAACGTCC	TTCATCGGCT	TCTAGTGCCA	AGGCATCCAC	CGTGCGCCCT	TAATAACTTA	240
ATCTATGTTT	CCATCCTACA	GGAAACGCGT	TATTAATCTT	GTGAGTGTTC	TTTCGAACAC	300
TAGCGATTAT	TTCTTATGAA	TTCAAGCTTA	TTTAAAACTC	TTTATTCACT	CGGTTGTGCT	360
TGGnAAAATC	TATATTTTAC	TTACTTATCT	AGGTTCAAT			400

- (2) INFORMATION FOR SEQ ID NO: 3699:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3699:							
TTTATGGCAT	ACACGCATCA	TAATACAGCC	CAACACCACT	AATGGTGCAG	TTGCAAATCC	60	
AAATTCTTCC	GCTCCAAGCG	CACATGCGTA	CGCTACATCT	TTACCAGTTA	ATAACTTACC	120	
GTCTGTTTCT	AACTTAACAC	GACTTCTTAA	GTCATTTAGT	TTTAATGTTT	GA G TGTTTC	180	
TGCTAAACCA	ATCTCCCAAG	GAACACCGGC	ATGCTGAATA	CTCGTTTTGG	GTGAAGCCCC	240	
TGTAnCACCA	TCGTAACCAC	TGATGACAAT	TTTATCTGCA	AATGCTTTTG	CCACCCAGA	300	
TGCAATGGTA	CCAACACCTG	TTTTCGAAAC	TAATTTTACC	GCGATATCTG	CATCTTTATT	360	
CGCATTTTTC	AAATCATGTA	TCAGTTGCGC	TAAATCTTCT			400	
(2) INFORMATION FOR SEQ ID NO: 3700:							

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3700:

CGACGTACCA TCGACGCTAA GG	GAGCTTAAC TTTCGTGTGT	TCGGCATGGG	AACAGGTGTG	60
ACCTCCTTTG CTATAGTCAC CA	AGACATATG AATGTAATTT	ATACATTCAA	AACTAGATAG	120
TAAGTAAAAG TNATTTTGCT TC	CGCAAAACA TTTATTTTGA	TTAAGTCTTC G	SATCGATTAG	180
TATTCGTCAG CTCCACATGT CA	ACCATGCTT CCACCTCGAA	CCTATTAACC	TCATCATCTT	240
TGAGGGATCT TATAACCGAA GT	TTGGGAAAT CTCATCTCnC	GGGGGGCTTC 2	ATGCTTAGAT	300
GCTTTCAGCA CTTATCCCGT CC	CACACATAG CTACCCAGCT	ATGCCGTTGG (CACGAAACT :	360
GGTACACCAG AGGTATGTCC AT	CCCGGTCC TCTCGTACTA			400

(2) INFORMATION FOR SEQ ID NO: 3701:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3701:

AACCAAGCCC	AATAATGGAC	TGGCCGCCTA	ATAATAAAAG	CTCTAAAAGT	TGTATTTTAA	60
AAATAGTTCT	TTAAATTATA	TACCCACCAC	ATTTGGTGGA	GAACCTAAAA	AAAAGCACTT	120

CCCAAAAATG	GAAAGTGCAA	GTAGTGAGCC	ATAGAGGATT	CGAACCTCTG	ACCCTCTGAT	180
TAAAAGTCAG	ATGCTCTACC	AACTGAGCTA	ATGGCTCTAA	TGGCTGGGCT	AGCTGGATTC	240
GAACCAACGA	GTGACGGAGT	CAAAGTCCGT	TGCCTTACCG	CTTGGCTATA	GCCCAATATA	300
TAGATGGTGG	AGGGGGGCAG	ATTCGAACTG	© GAACCCGA	AGAGCGGnTT	TACAGTCCGC	360
CGCGTTTAGC	CAnTTCGnTA	CCCCTCCAGn	TTATTCATAT			400

(2) INFORMATION FOR SEQ ID NO: 3702:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3702:

TTTAAGTC	CT GTGCGTCTGC	CAGTTCCGCC	ACCCCGGCAC	TATAAAAATG	GAGCAGAAGA	60
CGGGATTC	GA ACCCGCGACC	CCAACCTTGG	CAAGGTTGTT	ATTCTACCGC	GAACTACTT	120
CTGCATAT	GC GGGTGAAGGG	AGTCGAACCC	CCACGCCGTA	AGgTTAGaTC	CTAAGTCTAG	180
TGCGTCTG	CC AATTCCGCCA	CACCCGCAAA	TGGTGAGCCA	TAGAGGATTC	GAACCTCTGG	240
ACCCTCTG	GA TTAAAAGTCA	GATGCTCTAC	CAACTGAGCT	AATGGGCTCT	TCCATGGTGC	300
CGGCCAGAC	GG ACTTGGAACC	CCCAACCTAC	TGGATTACAA	GTCAGTTGGC	TCTACCAATT	360
GAnGCTAA	GG CCGGCAATAT	GTTAAGnATn	AATGGTGGAG			400

(2) INFORMATION FOR SEQ ID NO: 3703:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3703:

CAACTAATAA	ATAGTGGCGG	TGGAGGGGAT	CGAACCCCCG	ACCTCACGGG	TATGAACCGT	60
ACGCTCTAGC	CAGCTGAGCT	ACACCGCCT	ATATAGTTTG	TAAATAATAT	GGTGGAkACT	120
AGCGGGATCG	AACCGCTGAC	CTCCTGCGTG	CAAAGCAGgC	GCTCTCCCAG	CTGAGCTAAG	180
CCCCCATAAT	AATTACAGTA	TATCGGGAAG	ACAGGATTCG	AACCTGCGAC	CCCTTGGTCC	240
CAAACCAAGT	GCTCTACCAA	GCTGAGCTAC	TTCCCGTATA	ATTAACGCGC	CCATAGGAG	300
TCGAACCCAT	AAACCTCTTG	ATCCGTAGTC	AAACGCTCTA	TCCAATTGAG	CTAACGGGCG	360

	m x x m m C x x x m	GGTGCCCGAG	CACCCCAATC
$(, \nabla , \Gamma, \nabla , \Gamma, \nabla, \Gamma, \Gamma,$	TAATTTAAAAT	(+(+)(+)(+)(.)(+A(+	GALCGGAATG

- (2) INFORMATION FOR SEQ ID NO: 3704:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3704:

CTAACGCCTA	CGCGTTACAT	GAAAAACGGA	GAACAAGCAG	AACAATTATT	ACGTCAGCTT	60
ATAGAAAAAG	ATGAAGCACT	AGCTAAGTAT	GTCATGGTTT	GTGATGAAAC	AGCTTGGTGG	120
TCATATATGG	GTCAAGATAA	TGATATTTTC	AAAGATCAAT	TAGGTCATCT	AACTGTTCAG	180
CTAAGAAAGT	ATCCCGAAGT	GCTAGCCAAA	AATGATACGC	AACAGCTAGT	GTCAATGGCA	240
GCACTCGCGG	CAAATGATCG	CACTTTATAT	CAAATGATTT	GTGGAAAAGA	TAATATTTCT	300
AAAAATGATG	TCATGACGTT	ATTTGAAGAT	ATCGCGCAAG	TCTTTTTAAA	GGTAACACTA	360
TCATTTATGC	AATACGGC G C	ATTACCCAGA	GTTGCATGGT			400

- (2) INFORMATION FOR SEQ ID NO: 3705:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 478 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3705:

CAACGCATTA AGTCACTCCG CCTGGGGnGT ACGTCCGTGA AGTTGGAAACTCAAAGGAAT	60
TGACGGGGAC CCGCACAAGC GGTGGAGCAT GTGGTTTAAT TCGAAGCAAC GCGAaGaACC	120
TTACCAAATC TTGaCATCCT TTGaCAACTC TAGaGATAGA GCTTTCCCCT TCGGGGGTAC	180
AAAGTGACAG GTGGTGCATG GTTGTCGTCA GCTCGTGTCG TGAGATGTTG GGTTAAGTCC	240
CGCAACGAGC GCAACCCTTA AGCTTAGTTG CCATCATTAA GTTGGGCACT CTAAGTTGAC	300
TGCCGGTGAC AAACCGGAGG AAGGTGGGGA TGACGTCAAA TCATCATGCC CCTTATGATT	360
TGGGGCTACA CACGTGCTAC AATGGACAAT ACAAAGGGCA GCGAAACCGT GAGTCAAGCA	420
AATCCCATAA AGTTGTTCTC AGTTCGGATT @AGTCTGCA ACTCGACTAC ATGAAGCT	478

- (2) INFORMATION FOR SEQ ID NO: 3706:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3706:

ATCTTAAGTC TTTGGTGAAC CGTTTTGTAG AATTAAATAA TATTACAGAG CCGCTAGCAG 60
TAACGATCCA AACGAATTTA CCACCATCAC GTGGATTAGG ATCGAGTGCA GCTGTCGCGA 120
TTGCTTTTGT TCGTGCAAGT TATGATTTTT TAGGGAAATC ATTAACGAAA AAGAACTCA 180
TTGAAAAAGGC TAATTGGGCA GAGCAAATTG CACATGGTAA ACCAAGTGGT ATTGATACGC 240
AAACGATTGT ATCAGGCAAA CCAGTTTGGT TCCAAAAAAGG TCATGCTGAA ACGTTGAAAN 300
CTCAAAAGTTT AGACGGCTAT ATGGTTGTTA TAGANACTGG TGTGAAAGGT TCACCAAGAC 360
AAGCAGTAGA AGATGTTCCA TAAACTTTGG TGAGGACCCT 400

(2) INFORMATION FOR SEQ ID NO: 3707:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3707:

GTCGAACTGC CGACACATGG AGCTTCAATC CATTGCTCTA CCAACTGAGC TACTGAACCA 60
TAATAAAAAT GTAATnnTGG CGGTCTCGAC GGGAATCGAA CCCGCGATCT CCTGCGTGAC 120
AGGCAGGCGT GTTAACCGCT ACACTACGAG ACCTATAAAA TATTGCGGGA GGCGGATTTG 180
AACCACCGAC CTTCGGGTTA TGAGCCCGAC GAGCTACCGA ACTGCTCCAT CCCGCGATAA 240
TAAAAAAATAA TGGCGGAGA AGAGGGATTC GAACCCCCGC GGCCCGTTAA GGCCCTGTCG 300
GTTTTCAAGA CCGATCCCTT CAGCCGGACT TGGGTATTCC TCCATTATTA TAGTAAATC 360
GCTATTAATT ATAAAATTAA ATGGCGGTCT CGACGGGAAT

(2) INFORMATION FOR SEQ ID NO: 3708:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3708:

GTTCGCCCAT TAAAGCGGTA CCANGCTGGG TTCAGAACGT CGTGAGCANG TTCGGTCCCT 60

ATCnGGGGTG	GGCGTAGGAA	ATTTGAGAGG	AGCTGTCCTT	AGTACGAGAG	GACCGGGATG	120
GACATACCTC	TGGTGTACCA	GTTGTCGTGC	CAACGGCATA	GCTGGGTAGC	TATGTGTGGA	180
CGGGATAAGT	GCTGAAACAT	CTAAGCATGA	AGCCCCCCTC	AAGATGAGAT	TTCCCAACTT	240
CGGTTATAAG	ATCCCTCAAA	GATGATGAGG	TTAATAGGTT	CGAGGTGGAA	GCATGGTGAC	300
ATGTGGAGCT	GACGAATACT	AATCGATCGA	AGACTTAATC	AAAATAAATG	TTTTGCGAAC	360
AAAATCCACT	TTTACTTACT	ATCTAGTTTT	GAATGTATAA			400

(2) INFORMATION FOR SEQ ID NO: 3709:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 424 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3709:

AATTTTATGG	GCCCTTTATG	GACTTTATAT	TmCCTAAAAT	ACTATTAAGA	AGTCCTGAAA	60
AATTCACATT	AGCAGTTGGA	TTGTTCAACT	TTATTAATGA	TAAGTATGCA	AATAATTTCA	120
CAGTGTTTGC	AGCAGGGGCA	ATTATGATTG	CAGTACCTAT	AGCAATCGTA	TTCTTGTTCT	180
TGCAACGCTA	TTTAGTATCA	GGTTTAACAA	CAGGTGCGAC	AAAAGGTTAG	TTTGAAATTr	240
GGAGTGGGGC	AGAATTGATA	AAGAACCACT	AATGACGATA	AAGATTAAAA	GGAGGACGTT	300
ATGATGACGA	TTAAAGTTGG	AATCATTGGG	TGTGGTGGTA	TTGCGAATGG	CAAGCACATG	360
CCAAGTTTAC	AAAAAGTTGA	AAA TGT T GAA	ATGATCGCAT	TTGTGACGTG	GACTTTCGAA	420
AGCC						424

(2) INFORMATION FOR SEQ ID NO: 37D:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 559 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3710:

AGTGCTCTAC	CAAGCTGAGC	TACTTCCGT	ATAATTAACG	CGCCCGATAG	GAGTCGAACC	60
CATAACCTCT	TGATCCGTAG	TCAAACGCTC	TATCCAATTG	AGCTACGGGC	GCATATGTTT	120
TTATTGAAAA	TGGTGCCGAG	GACCGGAATC	GAACCGGTAC	GTGATCACTC	ACCGCAGgAT	180
TTTAAGTCCT	GTGCGTCTGC	CAGTTCCGCC	ACCCCGGCAC	TATAAAAATG	E GCAGAAGA	240
CGGGATTCGA	ACCCGCGACC	CCAACCTTGG	CAAGGTTGTa	TTCTACCGCT	GAACTACTTC	300

TGCATATGCG	GGTGAAGGGA	GTCGAACCCC	CACGCCGTAA	${\tt GcTkAGaTCC}$	TgAAGTCTAG	360
TGCGTCTGCC	AATTCCGCCA	CACCCGCAAA	TGGTGAGCCA	TAGAGGATTC	GAACCTCTGG	420
ACCCTCTGGA	TTGAAAAGTn	CAGATGCTCT	GACCAACTGG	AGCTAATGGC	TCTTCCCATG .	480
GTGGCCGGCC	AGAAGGACTT	GGAACCCCCA	ACCTGATGGA	TTTACAATTC	AGTTGGCTCT	540
AACCAATTTG	AGCTAAGGC					559

(2) INFORMATION FOR SEQ ID NO: 3711:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3711:

AACCTTTTAG GAGCTAGCCG TCGAAGGTG GACAAATGAT TGGGGTGAAG TCGTAACAAG 60
GTAGCCGTAT CGGAAGGTGC GGCTGGATCA CCTCCTTTCT AAGGATATAT TCGGAACATC 120
TTCTTCAGAA GATGCGGAAT AACGTGACAT ATTGTATTCA GTTTTGAATG-TTTGTTCATT 180
CAAATTAATG GGCCTATAGC TCAGCTGGTT AGAGCGCACG CCTGATAAGC GTÆGGTCGG 240
TGGTTCGAGT CCACTTAGGC CCACCATTAA TTTAATACCT ATTTGGGGGC TTAGCTCAGC 300
TGGGAGAGCG CCTGCTTTGC ACGCAGGAGG TCAGCGGTTC GATCCCGCTA GTCTCACCA 360
TTATTTGTAC ATTTGAAAAC TAGATAAGTA AGTAAAATAT 400

(2) INFORMATION FOR SEQ ID NO: 3712:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3712:

- (2) INFORMATION FOR SEQ ID NO: 3713:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3713:

TTTTTAAGTC TGATGTGAA	A GCCCACGGCT	CAACCGTGAA	GGGTCATTGG	AAACTGGAAA	60
ACTTGAGTGC AGAAGAGGA	A AGTGGAATTC	CATGTGTAGC	GGTGAAATGC	GCAGAGATAT	120
GGAGGAACAC CAGTGGCGA	A GGCGACTTTC	TGGTCTGTAA	CTGACGCTGA	TGTGCGAAAC	180
GTGGGGATCA nACAGGATT.	A GATACCCGGT	AGTCCACGCC	GTAAACGATG	AGTGCTAAAG	240
TGTTAGGGGG TTTCCGCCC	C TTAGTGCTGC	AGTAAACGCA	TTnAAGCACT	CCGnCTGGGG	300
AGTACGnCCG CAAGTTGGA	A ACTTCAAAGG	AATTGACGGG	GGACCCGCAC	AAGCGTTGGG	360
AGCATGTGGT TTAATTTCG	A AGCAACGGAG	ÆGAACCTGA			400

- (2) INFORMATION FOR SEQ ID NO: 3714:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 425 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3714:

AGGTAGGACT	CGAACCTACG	ACCGATCGGT	TAACAGCCGA	TAGCTCTACC	ACTGAGCTAC	60
TGTGGATTAA	TATTATGCCT	GGCAACGTTC	TACTCTAGCG	GAACGTAAnT	CGACTACCAT	120
CGACGCTAAG	GAGCTTAACT	TCTGTGTTCG	GCATGGGAAC	AGGTGTGACC	CCTTGCTAT	180
AGTCACCAGA	CATATGAATG	TAATTTATAC	ATTCAAAACT	AGATAGT AA G	TAAAAGTGAT	240
TTTGCTTCGC	AAAACATTTA	TTTTGATTAA	GTCTTCGATC	GATTAGTATT	CGTCAGCTCC	300
cAtGTCACCA	TGCTTCCACC	TCGAACCTAT	TAACCTCATC	ATCTTTGAGG	GATCTTATAA	360
CCGAAGTTGG	GAAATCTCAT	CTTGAGGGGG	GCTTCATGTC	TTAGCATTTC	AGTCACTTAT	420
GCCCG						425

- (2) INFORMATION FOR SEQ ID NO: 3715:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid

(C)	STRANDEDNESS:	double
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3715:

GTCCCTGCTG TTCCTATCAT ATAAATGATA GATTCAAATA GATTTGTAGG TTTGTCATGC 60

CCAGTTACAA GTTGCGTTAT CGTAGACACT AACATTAATA TGACTGGTAA TGTTGCTGTT 120

AATAAACTCA TACCAAATCC TGGCATCTCT TGATCCGTAA ATTCTTTTTG TGCACCTAAC 180

GCTGAAATAT CGCCTTCTCG TGTATACGCA GACGGAATCA TTTTTTGTGC ACTTTGTTAA 240

ATATAGGCCC TGCAATGAGT GTACTGGAAT GGCAATAATC ATACCATACA GTATACATC 300

TCCAACATTT GCCTTTAATT CTTTTGCGAG ACTACCGGTC CTGGGATGTG GTGGTAAAAA 360

GCCATGTGTC ACTGATAAAG CTGTTACCAT AnGTAGTCCT 400

(2) INFORMATION FOR SEQ ID NO: 3716:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3716:

TTATGAATTC AAGCTTATTT AAAACTCTTT ATTCACTCGG TTTTGCTTGG TAAAATCTAT 60
ATTTTACTTA CTTATCTAGT TTTCAATGTA CAATTTCTTT TTAGTCAAGC GCTCGCATAA 120
GCAATATCAC TTTAACCAAA AAATATTTGA ATGTTAAATA AACATTCAAA ACTGAATACA 180
ATATGTCACA TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC TTAGAAAGGA 240
GGTGATCCAG CCGCACCTTC CGATACGGCT ACCTTGTTAC GACTTCACCC CAATCATTTG 300
TCCCACCTTC GACGGCTAGC TCCTAAAAGG TTACTCCACC GGnTTCGGGT GTTACAAACT 360
GTTCGTGGTG TGACGGGCG GTGTGTTACA AGACCCGGGA 400

(2) INFORMATION FOR SEQ ID NO: 3717:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3717:

AAAGGACGAC ATTAGACGAA TCATCTGGAA AGATAATTCA AAGAAGGTAATAATCCTGTA

GTCGAAAATG	TTGTCTCTCT	TGAGTGGATC	CTGGTACGAC	GGAGCACGTG	AAATTCCGTC	120
GGAATCTGGG	AGGACCATCT	CCTAAGGCTA	AATACTCTCT	AGTGACCGAT	AGTGAACCAG	180
TACCGTGAGG	AAAGGTGAAA	AGCACCCCGG	AAnGAGTTGA	AATAGAACCT	GAAACCGTGT	240
GCTTACAAGT	AGTCAGAGCC	CGTTAATGGG	TGATGGCGTG	CCTTTTGTAG	AATGAACCGG	300
CGAGTTACGA	TTTGATGCAA	GGTTAAGCAG	TAAATGTGGA	GCCGTAGCAn	AAnnTGTTCT	360
GAATAGGGCG	TTTAGTATTT	TGGTCGTAGC	CCGAGAACCA			400

(2) INFORMATION FOR SEQ ID NO: 37B:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3718:

	TAATTCATCT	GCAGCATCTG	GTTGATITAA	GCTTTCACGT	AAACACATCG	CTAAAGATAG	60
,	AATCATTCCA	AATGGATTGG	CAACGTTTTT	ACCTGCAATA	TCTGGTGCTG	ATCCATGAAT	120
ì	AGGCTCATAC	AATCTTGGAC	CATCGTTACT	AAAACTAGCA	GAAGGTGATA	AACCAAGTGA	180
1	ACCAGGAATC	ACTGAAGCTT	CATCACTTAA	AATATCGCCA	AATAAGTTTT	E CATACGAT	240
(GACGTCAAAT	TGTTTTGGnA	TTTGTGATTA	AATGCATACT	ACAAGCATCA	ACAAATAAGT	300
(GATTTACTGT	TACTTCTGGG	ATATAATTGA	CTTACTTCCA	TTTACGACTT	TGCGCCACAA	360
	TTTACTAGAA	GCTAATACAT	TTCCTTATCA	ACGGATGTnA			400

(2) INFORMATION FOR SEQ ID NO: 3719:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3719:

ATTTAAAACT GCCTGGCAAC GTTCTACTCT AGCGGAANTA AGTNGAGCTA CCATCGACGC 60
TAAGGAGCTT AACTTCTGTG TTCGGCATGG GAACAGGTGT GACCTCCTTG CTATAGTCAC 120
CAGACATATG AATGTAATTT ATACATTCAA AACTAGATAG TAAGTAAAAG TGATTTTGCT 180
TCGCAAAACA TTTATTTTGA TTAAGTCTC GATCGATTAG TATTCGTCAG CTCCACATGT 240
CACCATGCTT CCACCTCGAA CCTATTAACC TCATCATCTT TGAGGGATCT TATAACCGAA 300
GTTGGGAAAT CTCATCTTGA GGGGGGCTTC ATGCTTAGAT GCTTTCAGCA CTTATCCCGT 360

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		AGCCGTTGGC	1 CC1 C1 1 1 - CC
$( \ \ \Delta \ \ )$	TALL AGE	A(=( (-1))(-(-1))	A( (=AL.AAD(=(=

- (2) INFORMATION FOR SEQ ID NO: 3720:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3720:

CGTTACACCT	TCCAATAAAT	TTGCTGTTGC	TGGATAAGGA	GAAATATTGA	TATATTGTCT	60
TAAATTACTA	TAATGCCAAT	TTAAGTCTGG	ATGATTTGTT	AAGACACCAA	TAGGATTATC	120
TTTTATAACC	ACTTCACCCT	CTTTAAATGA	AACTTCGACT	GTATGTCCAG	TTGCATCGGA	180
AACATGATAA	TGCAATGGCG	GAACTTCACC	GATGTCATTT	AAATATACAG	CTACAACATG	240
TATTTGGGAT	GCTTGTTGTT	TCATATCTTC	AATGCTTGTT	GTATATCCCA	AAATCCATGT	300
CACAATTTCA	TTTTGCGTAA	TATTCATCGC	GTCCGCTTTG	TGTGTTGGAT	CCATATGGAA	360
CTATAACCTC	GGGAAATATT	GTGGTTGAAA	TGGGCACGCC			400

- (2) INFORMATION FOR SEQ ID NO: 3721:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3721:

AGTCAGTTTA	TAGCGATTGC	TGGACTGACA	GTACTTGTGC	CATTATTGCC	AATTTATATG	60
GCATCACTAC	AAAATCTATC	AGTCGTAGAA	ATACAGTTGT	nGAGTGGTAT	AGCGATTGCT	120
GCTCCAGCTG	TAACGACGAT	GATAGCTTCG	CCGATATGGG	GGAAGCTAGG	TGATAAGATC	180
AGCCGAAAAT	GGATGGTGTT	AAGAGCGTTA	CTTGGTTTGG	CGGTATGCTT	ATTTTTAATG	240
GCATTGTGTA	CGACACCATT	ACAGTTTGTA	CTTGTGGAGG	TTATTGCAGG	GACTATTTGG	300
TGGTGTTGTT	GATGCATCAA	GTGCGTTTGC	GAGTGCAGAA	GGCGCCACTG	AnAGATCGTG	360
GGAAAGGTAT	TAGGAAGACT	GCAAATTnCA	GTTCAGCGCA			400

- (2) INFORMATION FOR SEQ ID NO: 3722:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3722:	
TCTAAAAGTT GAACTACTCC CGCATAAACC TGGAGGCGGC AACCGGATTT GAACCGGTGA	60
TAAAGGTTTT GCAGACCTCT GCCTTACCAC TTGGCTATGC CGCCAATAAC TGGGCTAGCT	120
GGATTCGAAC CAACGAGTGA CGGATAAGT CCGTTGCCTT ACCGCTTGGC TATAGCCCAT	180
TAATAATAAG GGCGGCTGAA GGGGATCGAA CCCTCGAATG TCGGAACCAC AATCCGATGT	240
GTTAACCACT TCACCACAGC CGCCATGGCA GGGGCAGTAG GAATCGAACC CACACCAAAG	300
GTTTTGGAGA CCTCTATTCT ACCNTTGAAC TATGCCCCTA TTAAAATGAT AATGGAGGG	360
GGGCAGATTC GAACTGCCGA ACCCGAGGGG CGGATTTTAC	400
(2) INFORMATION FOR SEQ ID NO: 3723:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3723:	
CATTTCTTAG CCGGCCTAGC TCAATTGGTA GAGCAACTGA CTTGTAATCA GTAGGTTGGG	60
GGTTCAAGTC CTCTGGCCGG CACCATTTnT GGAGGGGTAG CGAATGGCTA AACGCGGCGG	120
ACTGTAAATC CGCTCCTTCG GGTTCGGCAG TTCGAATCTG CCCCCCTCCA TTTATTATTT	180
TTAATAGGGG CATAGTTCAA CGGTAGAATA GAGGTCTCCA AAACCTTTGG TGTGGGTTCG	240
ATTCCTACTG CCCCTGCCAT GGCGGCTGTG GTGAAGTGGT TAACACATCG GATTGTGGTT	. 300
CCGACATTCG AGGGTTCGAT CCCCTTCAGC CGCCTTATTA TTAATGGGCT ATAGCCAAGC	360
GGTAAGGCAA CGGACTTTGA CTCCGTCACT CGTTGGTTCG	400
(2) INFORMATION FOR SEQ ID NO: 3724:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

# 2405

ATATGGCGTG CGTCGTTTTG ATCATAAATT AGAATCAAAA GGATACGAG ATGCAGAATC 120

CACTTTAGCA AATGGTGACA AAGTCCGTAT TGCTACAATT TTTGACTTAA TGGCAAGTCA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3724:

AAAATATACA	CCTGCTTGGC	AAGAAGCCAT	TTCAGGCGTA	AAACAAAGTG	TTnGTCATTC	180
AAGTAGCGAA	AGAATTTGCG	CAAAACGCTA	TCGATACTGA	AGGGCGTTCA	ATGATTATCA	240
TGGGTGCGGG	TATTAACCAT	TGGTTTAACT	CAGATACGAT	TTATCGTTCC	AATCTTAAAC	300
TTAGTTATGT	TATGTGGCTG	TCAGGTGTGA	ATGGTGGCGG	TTGGGGCTCA	CTATGTGGGG	360
ACAAGAAAAA	TGTCGTCCGA	TTGAAGGATG	GAGTACTGTC			400

### (2) INFORMATION FOR SEQ ID NO: 3725:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 476 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3725:

CGCTATCTGA ATCTGAATCG CTATCTGAAT CTGAGTCGTT GTCTGAGTCC GAATCGCTAT 60 CTGAATCTGA GTCGCTATCT GAGTCTGAGT CGCTATCTGA ATCTGAGTCG CTGTCTGAAT 120 CTGAATCACT GTCTGAGTCT GAGTCGCTGT CTGAGTCTGA ATCGCTGTCA GAATCTGAGT 180 CGCTATCTGA GTCTGAATCT GAATCACTGT CTGAGTCCGA ATCGCTATCT GAATCTGAAT 240 CGCtATCTGA GTCTGAGTCs CTATCCGAAT CTGAGTCGCT ATCTGAGTCTGAGTCGCTAT 300 CCGAGTCTGA ATCGCTGTCT GAGTCTGAGT CGCTGTCTGA ATCTGAATCG CTATCTGAGT 360 CTGAGTCGCT GTckGAATgC GCTGTCTGAA TCTGAGTCGC TATGCTGAAT GCTGAGTnCG 420 CTATGTGAGT CTGAATGCGC TGTGCAGAAT CTGAGTGCGC TCATCTGATG TTTCTT 476

### (2) INFORMATION FOR SEQ ID NO: 3726:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3726:

ATACGACCAC TGTTTAATGC GTCCATTAAA TCTGGCCAAT TATTGAATTT AACTAATTCT 60

AGTTTATATT TCGGATGATT GTATTGTGAT AATAATTTTT TAGTCATCAT CAAATTAGCT 120

GAATGTGTAA TCGGCAAATA TCCAATTTTA ATCACTTGCT GATTTTGGGC ATTTTTAGAC 180

CGTTCTTTAG ACGTCCTTTG CCAATCACAT CCTGTAATTA TAAAGATTCC AATGATGACG 240

ATTATGCTTA ACCTTTTCAT CGTCACTCAC TCCTTATAAA TAATATTCAG GTTCAACTTG 300

ATGATGATTC AATGCAANGT TTCCATAATT TCATTACGAA TCTTAAGTAG GTGGCTATCA	360			
TTACGGACTG CGTGGATGTG AnGCTGTAAA TTCCATAnTG	400			
(2) INFORMATION FOR SEQ ID NO: 3727:				
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>				
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3727:				
ACGACGGATA GGGACCGAAC TGTCTCACGA CGTTCTGAAC CCAGCTCGCG TACCGCTTTA	60			
ATGGGCGAAC AGCAAACCCT TGGGACCGAC TACAGCCCCA GGATGCGATG AGCCGACATC	120			
GAGGTGCCAA ACCTCCCCGT CGATGTGAAC TCTTGGGGGA GATAAGCCTG TTATCCCCGG	180			
GGTAGCTTTT ATCCGTTGAG CGATGGCCCT TCCATGCGGA ACCACCGGAT CACTAAGTCC	240			
GTCTTTCGAC CCTGCTCGAC TTGTAGGTCT CGCAGTCAAG CTCCCTTATG CCTTTACACT	300			
CTATGAATGA TTTCCAACCA TTCTGAGGGA ACTTTGAGCG CCTCCGTTnC CTTTTAGGAG	360			
GCGAACGGCC CCAGTTCAAA CTGCCCGCT GAACACTGTC	400			
(2) INFORMATION FOR SEQ ID NO: 3728:				
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>				
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3728:				
TTGAAAAGTC ATATCAAAGC GCACATGTTT TTAAGCGTCG TCGAACACCT ATCGTGAAAG	60			
GTGTGTCATT TGAGTGTCCA ATCGGTGCGA CGATTGCGAT TATCGGAGAA AGTGGTAGCG	120			
GTAAATCGAC GTTGAGTCTA TTGATATTAG GTATTGAGAA ACCGGATAA GGTTGTGTAA	180			
CCTTAAATGA TCAACCGATG CATAAGAAGA AAGTGAGACG TCATCAAATT GGTGCTGTAT	240			
TTCAAGATTA TACGTCATCA TTACATCCAT TTCAGACTGT TAGAGAAATC TTATTTGAAG	300			
TGATGTGTCA ATGTGATGGA CAACCTAAAG AAGTTATGGA AGTCCAAGCA ATTACATTGT	360			
TGGAAGAAGT CGGTCTATCT AAGGCATACA TGGGATAAAT	400			

## (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs

(2) INFORMATION FOR SEQ ID NO: 3729:

- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3729:

ATCGAACCC CGACCTCACG GGTATGAACC GTACGCTCTA GCCAGCTGAG CTACACCGCC 60

TTATATAGTT TGTAAATAAT ATGGTGGAGA CTAGCGGGAT CGAACCGCTG ACCTCCTGCG 120

TGCAAAAAGC CGCTCTCCCA GCTGAGCTAA GCCCCCATAA TAATTACAGT ATATCGGGAA 180

GACAGGTTCG AACCTGCGAC CCCTTGGTCC CAAACCAAGT GCTCTACCAA GCTGAGCTAC 240

TTCCCGTATA ATTAACGCGC CCGATAGGAG TCGAACCCAT AACCTCTTGA TCCGTAGTCA 300

AACGCTCTAT CCAATTGAGC TACGGGCGCA TATGTTTTTA TTGAAAATGGTGCCGAGGAC 360

CGGAATCGAA CCnGTAGTGA ATCACTCACC GCAGATTTA

#### (2) INFORMATION FOR SEQ ID NO: 3730:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: lihear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3730:

ATCTCTGGAT CAAAGCTTAC TTACAGCTCC CCAAAGCATA TCGTCGTTAG TAACGTCCTT 60
CATCGGCTTC TAGTGCCAAG GCATCCACCG TGCGCCCTTA ATAACTTAAT CTATGTTTCC 120
ACCATTTTA TAAGTCAAAC GTTAACATGA AGTTACGTTC TTTTATAAAA AGATTTAAAC 180
GCGTTATTAA TCTTGTGAGT GTTCTTTCGA ACACTAGCGA TTATTTCTTA TGAATTCAAG 240
CTTATTTAAA ACTCTTTATT CACTCGGTTT TGCTTGGTAA AATCTATATT TTACTTACTT 300
ATCTAGTTTT CAATGTACAA ATAATGTGG AGACTAGCGG GATCGAACCG CTGACCTCCT 360
GCGTGCAAAG CAGGCGCTCT CCCAGCTGAG CTAAGCCCCC 400

#### (2) INFORMATION FOR SEQ ID NO: 3731:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 401 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3731:

TGATTACAAG TCAGTTGCTC TACCAATTGA GCTAGGCCGG CAATATGTAA GAATAAATGG 60

TGGAGAATGA	CGGGTTCGAA	CCGCCGACCC	TCTGCTTGTA	AGGCAATGC	TCTCCCAGCT	120
GAGCTAATTC	TCCGATTTAA	AACTGCCTGG	CAACGTTCTA	CTCTAGCGGA	ACGTAAGTTC	180
GACTACCATC	GACGCTAAGG	AGCTTAACTT	CTGTGTTCGG	CATGGGAACA	GGTGTGACCT	240
CCTTGCTATA	GTCACCAGAC	ATATGAATGT	AATTTATACA	TTCAAAACTA	GATAGTAAGT	300
AAAAGTGATT	TTGCTTCGCA	AAACATTTAT	TTTGATTAAt	GTCTTCGATC	GATTAGTATT	360
CGTCAGCTCC	ACATGTCACC	ATGCTTCCAC	CTCGAACCTA	T		401

## (2) INFORMATION FOR SEQ ID NO: 3732:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 397 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3732:

CATTATTAAC GGCTATGGTT TAACTGAAGC ACCTCTTGTA CTTGTTAATA CACCGGAAAA 60

TTCAAAACGT AAGCCAATGA GTATTGGTAA AGCAGTCATG TTCGTTGATG CACGTATCCT 120

TGATGATAAC GGTGAGGAAG TACCTACTGG TGAGATTGGC GAACTTGCAA TTAAGGCTAA 180

AAATGTCACG CCAGGATATT GGAATAAACC AGCAGAGACT GCCAAAGCAT TTCATGGTCG 240

ATATTTATTA ACTGGTGACT TAGCGAGATG GACAACGATG GCGATATÆT TATTATTGAC 300

CGCAAAAAAG AATTAATCAT AACTGGTGGC GAAAATGTCT TACCATCCGA GTCGAAATGC 360

TTACCCGCAACGATA GACCGGTGTG TGGTCGT 397

### (2) INFORMATION FOR SEQ ID NO: 3733:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3733:

AAGTAACAAT CGTTCACCGT CGTGATGAGT TACGTGCACA GCGTATTTTA CAAGATAGAG 60
CATTCAAAAA TGATAAAATC GACTTTATTT GGAGTCATAC TTTGAAATCA ATTAATGAAA 120
AAGACGGCAA AGTGGGTTCT GTGACATTAA CGTCTACAAA AGATGGTTCA GAAGAAACAC 180
ACGAGGCTGA TGGTGTATTC ATCTATATTG GTATGAAACC ATTAACAGCG CCATTTAAAG 240
ACTTAGGTAT TACAAATGAT GTTGTTATA TTGTAACAAA AGATGATATG ACAACATCAG 300
TACCAGGTAT TTTTGCAGCA GGnGATGTTC GCGACAAAGG TTACGCCAAA TTGTCACTGC 360

- (2) INFORMATION FOR SEQ ID NO: 3734:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 480 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3734:

GCCGTTTACT	GTGGCTTCGA	TTCGTAGCTT	CGCAGAAGCT	AACACTCCT	CTTAACCTTC	60
CAGCACCGGG	CAGGCGTCAG	CCCTATACAT	CACCTTACGG	TTTAGCAGAG	ACCTGTGTTT	120
TTGATAAACA	GTCGCTTGGG	CCTATTCACT	GCGGCTCTTC	TGGGCGTTAA	CCCTAAAGAG	180
CACCCCTTCT	CCCGAAGTTA	CGGGGTCATT	TTGCCGAGTT	CCTTAACGAG	AGTTCGCTCG	240
CTCACCTTAG	AATTCTCATC	TTGACTACCT	GTGTCGGTTT	GCGGTACGGG	CACCTATTTT	300
CTATCTAGAG	GCTTTTCTCG	GCAGTGTGAA	ATCAACGAcT	CGAAGACACA	ATGTCTTCTC	360
CCCATCACAg	TCAGCCTTAA	CGrGTACCGG	ATTTGCCTTA	ATACTCAGCC	TTTACTGCTT	420
TAGACGTGCA	ATCCAATCGG	CAACGCTTCG	CCTAATCCTA	ACTGGCGGTC	CCCCCCnAT	480

- (2) INFORMATION FOR SEQ ID NO: 3735:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3735:

CGATCCCTTC AGCCGG	ACTT GGGTATTCCT CO	CAAAATTAT ATGGACCTTG	CAGACTCGAA 60
CCTGCGACCG AACGGTT	ATG AGCCGTTAGC TO	CTAACCAAC TGAGCTAAAG	GTCCTAAATA 120
TAATTTTACA ACTAATA	AAAT AGTGGCGGTG GA	AGGGGATCG AACCCCGAC	CTCACGGGTA 180
TGAACCGTAC GCTCTAG	SCCA GCTGAGCTAC AC	CCGCCTTAT ATAGTTTGTA	AATAATATGG 240
TGGAGACTAG CGGGATC	CGAA CCGCTGGACC TO	CCTGCGTGC AAACAGnCGC	TCTCCCAGCT 300
GAGCTnAAGC CCCCATA	ATA ATTACAGTAT AT	ICGGGAAGA CAGGATTCGA	ACCTGCGACC 360
CCTTGGTCCC CAAACCA	AGT GGTTTnACCA AG	GTTGAGCTA	400

- (2) INFORMATION FOR SEQ ID NO: 3736:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs

(B)	TYPE: nucleic	acid
(C)	STRANDEDNESS:	double

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3736:

TGAGCCCGAC GAGCTACCGA	ACTGCTCCAT	CCCGCGATAA	TAAAAATAA	TGGCGGAGGA	60
AGAGGGATTC GAACCCCCGC	GGCCCGTTAA	GGCCCTGTCG	GTTTTCAAGA	CCGATCCCTT	120
CAGCCGGACT TGGGTATTCC	TCATTATTA	TAGGTAAATC	GCTATTAATT	ATAAAATTAA	180
ATGGCGGTCT CGACGGGAAT	CGAACCCGCG	ATCTCCTGCG	TGACAGGCAG	GCGTGTTAAC	240
CGCTACACTA CGAGACCATT	AGTAAAACGG	AGGAAGAGGG	ATTCGAACCC	CCGCGAGCCG	300
TTAAGCCCCT GTCGGTTTTC	AAGACCGATT	CCTTCAGCCG	GACTTGGGA	nTCnTCCAAA	360
ATTATATGGA CCTTGCAGGA	CTCGAACTGC	GAnCGAACGG			400

## (2) INFORMATION FOR SEQ ID NO: 3737:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3737:

TAATAATTAC	AGTATATCGG	GAAGACAGGA	TTCGAACCTG	CGACCCCTTG	GTCCCAAACC	60
AAGTGCTCTA	CCAAGCTGAG	CTACTTCCCG	TATAATTAAC	GCGCCCGATA	GGAGTCGAAC	120
CCATAACCTC	TTGATCCGTA	GTCAAACGCT	CTATCCAATT	GAGCTACGGG	CGCATATGTT	180
TTTATTGAAA	ATGGTGCCGA	GGACCGGAAT	CGAACCGGTA	CGTGATCACT	CACCGCAGGA	240
TTTTAAGTCC	TGTGCGTCTG	CCAGTTCCGC	CACCCGGCA	СТАТАААААТ	GGAGCAGAAG	300
ACGGGATTCG	AACCCGCGAC	CCCACCTTG	GCAAGGTTGT	ATTCTACCGC	TGAACTACTT	360
CTGCATATGC	GGGTGAAGGG	AGTCGAACCC	CCACGCCGTA			400

## (2) INFORMATION FOR SEQ ID NO: 3738:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3738:

AGAATGACGG GTTCGAACCG CCGACCCTCT GCTTGTAAGG CAGATGCTCT CCCAGCTGAG 60

CTAATTCTCC	GATTTAAAAC	TGCCTGGCAA	CGTTCTACTC	TAGGGAAGT	AATCGGAnCT	120
ACCATCGACG	CTAAGGAGCT	TAACTTCTGT	GTTCGGCATG	GGAACAGGTG	TGACCTCCTT	180
GCTATAGTCA	CCAGACATAT	GAATGTAATT	TATACATTCA	AAACTAGATA	GTAAGTAAAA	240
GTGATTTTGC	TTCGCAAACA	TTTATTTTGA	TTAAGTCTTC	GATCGATTAG	TATTCGTCAG	300
CTCCACATGT	CACCATGCTT	CCACCTCGAA	CCTATTAACC	TCATCATCTT	TGAGGGATCT	360
TATAACCGAA	GTTGGGAAAT	CTCATCTTGG	AGGGGGGCTT	-		400

### (2) INFORMATION FOR SEQ ID NO: 3739:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 basepairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3739:

GnTGGnAAGA	ATATCCAGGT	GTATACATCA	GTTGGCGCGC	TATAGCAATT	CTTTGCCGCT	60
CACCACCCGA	CATATTTTCC	ACTTCCGAAC	TTAATTGATA	ATGTCCCAAA	CCGACATCTT	120
TAATTAATTG	CTnTGCACGT	TTTCTATCAA	ATTTATCATT	ACGTGCAAGT	GATGGGAATA	180
TCATGTTATC	TTCAATCGTT	TCACCAAACA	AGTCACTTTG	CTGCATCAAA	TAACTGATTC	240
GTTGACGCAA	TTCTTCCGGG	TCATAATCAT	TATAGGGTTT	ACCTTAAAA	TAAAGTTCTC	300
CACTAGTTGG	ACTAAACAAA	TTACATATnT	GCTTTTGAAA	TGTACTTTTA	CCACTACCTG	360
ATGGACCTAT	AATGGCAATA	CTCTCGCCTT	TATCTACTTT			400

### (2) INFORMATION FOR SEQ ID NO: 3740:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 413 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3740:

ATCGCTTGCT	TCTTTCCTCT	CCTTCGGCTC	TCGCTTACTC	ATTTAGCTCT	ACTAAACTCG	60
TTGCGCTCTT	TTCTCGTTTC	GTCAGATTCA	AACGTTTTCA	CTTCGCCAAG	CCATTTTTCT	120
TTGTGTTTAC	TTTTTATTTT	GACGTTTTAG	ACATAAAAAA	AAGAGACCTT	GCGGTCTCAA	180
TGCGGCTCAT	CGCATCCaTT	TTTTGCCTGG	CAACGTTCTA	CTCTAGCGGA	AnTAATTGGC	240
TACCATCGAC	GCTAAGAACC	TTTCTTGACT	TGTGACAATC	GCTTGCTTCT	TTCCTCTTCT	300

TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	360
AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTGCTTT TnA	413
(2) INFORMATION FOR SEQ ID NO: 3741:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3741:	
CTTAGATGCT TTCAGCACTT ATCCCGTCCA CACATAGCTA CCAGCTATG CCGTTGGCAC	60
GACAACTGGT ACACCAGAGG TATGTCCATC CCGGTCCTCT CGTACTAAGG ACAGCTCCTC	120
TCAAATTTCC TACGCCCACG ACGGATAGGG ACCGAACTGT CTCACGACGT TCTGAACCCA	180
GCTCGCGTAC CGCTTTAATG GGCGAACAGC CCAACCCTTG GGACCGACTA CAGCCCCAGG	240
ATGCGATGAG CCGACATCGA GGTGCCAAAC CTCCCCGTCG ATGTGAACTC TTGGGGGAGA	300
TAAGCTGTTA TCCCCGGGGT AGCTTTTATC CGTTGAGCGA TGGCCCTTCC ATGCGGAACC	360
ACCGGATCAn TAAGTCCGTC TnTCGACCCT GnTGGACTTG	400
(2) INFORMATION FOR SEQ ID NO: 3742:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3742:	
GTTTTGAATG TATAAATTAC ATTCATATGT CTGGTGACTA TAGCAAGGAG GTCACACCTG	60
TTCCCATGCC GAACACAGAA GTTAAGCTCC TTAGCGTCGA TGGTAGTCGA ACTTACGTTC	120
CGCTAGAGTA GAACGTTGCC AGGCAGTTTT AAATCGGAGA ATTAGCTCAG CTGGGGAGAG	180
CATCTGCCTT ACAAGCAGAG GGTCGGCGGT TCGAACCCGT CATTTCCAC CATTTATTCT	240
TACATATTGC CGGCCTAGCT CAATTGGTAG AGCAACTGGA CTTGTAATCA GTAGGTTGGG	300
GGTTCAAGTC CTCTGGCCGG CACCATGGGA AGAGCCATTA GCTCAGTTGG TAGAGCATCT	360
GACTTTTAAA TCAGAGGTT CAGAGGTTnC GAATCCGCTA	400
(2) INFORMATION FOR CRO ID NO. 27/2	

- (2) INFORMATION FOR SEQ ID NO: 3743:
  - (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 343:

TCGCAATAAC	CGCATCAAAT	GTATTGCCTA	AAAAGGCTGG	ATTTTCCAAT	GTGTCATCAT	60
TACGGATCTC	GAAGTTCTCA	TAACGCACAT	CATGTAATAA	CATATTCATG	CGTGCTAAGT	120
TGTATGTAGT	ATTGTTACGT	TCTTGTCCGA	AATAACGATA	CACTTGCGTT	TCTTTACCAA	180
CACGTAACAA	CAATGAACCG	GAACCACATG	TTGGGTCGTA	CACGTGACGT	AATTTATCTT	240
TACCGTCTGT	GACAATCTTC	GCCAGTATCT	TAGATACTTG	TTGTGGTGTA	TAGAACTCGC	300
CTGCTTTTT	ACCCGCTGTC	GCCGCAAAGC	GCCCGATTAG	GAATTCATAT	GCATCACCTA	360
ACATATCAAT	TTCCATGGTC	ACTGTGAACG	AATGGGTAAG			400

- (2) INFORMATION FOR SEQ ID NO: 3744:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3744:

CTACTGATTA	CAAGTCAGTT	GCTCTACCAA	TTGAGCTAGG	CCGGCAATAT	GTAAGAATAA	60
ATGGTGGAGA	ATGACGGGTT	CGAACCGCCG	ACCCTCTGCT	TGTAAGGCAG	ATGCTCTCCC	120
AGCTGAGCTA	ATTCTCCGAT	TTAAAACTGC	CTGGCAACGT	TCTACTCTAG	CGGAACGTAA	810
GTTCGACTAC	CATCGACGCT	AAGGAGCTTA	ACTTCTGTGT	TCGGCATGGG	AACAGGTGTG	240
ACCTCCTTGC	TATAGTCACC	AGACATATGA	ATGTAATTTA	TACATTCAAA	ACTAGATAGT	300
AAGTAAAAGT	GATTTGCTTC	GCAAAACATT	ATTTGATTAA	GTCCTCGATC	GATAGTATCG	360
TCAGCTCCAC	ATGTCACCAT	GCTTCCAnCT	CGnACCTATT			400

- (2) INFORMATION FOR SEQ ID NO: 3745:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 386 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3745:

CATAAGTAAA CTCTGCTTTA AAATAATTTA ACTCATTGTC TGCTAAACGT TTTCTTTTAT 60

AAAAAGATTT	AAACGCGTTA	TTAATCTTGT	GAGTGTTCTT	TCGAACACTA	GCGATTATTT	120
CTTATGAATT	CAAGCTTATT	TAAAACTCTT	TATTCACTCG	G <b>T</b> TTGCTT <b>G</b>	GTAAAATCTA	180
TATTTTACTT	ACTTATCTAG	TTTTCAATGT	ACAATTTCTT	TŢTAGTCAAG	CGCTCGCATA	240
CTGCTTTATT	nTCAAAAAAT	CAAATGCTCA	TTTACAAAAG	TAAACTCCGC	TTTAATTTTC	300
TTAATGCATT	GTCTAACAAC	CGCTTGCTTT	AAAAAGAATA	GATTGnCAAG	CGCTCGCATA	360
AGCAATATCA	CTTnAACCAA	ATAAAA				386

## (2) INFORMATION FOR SEQ ID NO: 3746:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 677 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3746:

60	GCTTACAAGT	GAAACCGTGT	AATAGAACCT	AGGATGTTGA	GCACCCCGGA	AAGGTGAAAA
120	CGAGTTACGA	AATGAACCGG	CCTTTTGTAG	TGATGGCGTG	CGTTAATGGG	AGTCAGAGCC
180	GAATAGGGCG	AACanGGTCT	GCCGTAGCAk	TAAATGTGGA	GGTTAAGCÆG	TTTGATGCAA
240	GAAGTTCAGG	TGGTCAGGTT	GATCTACCCT	AnAACCAGGT	GGTCGTACCG	TTTAGTATTT
300	AACTGAGGGT	TGAGCGGATG	CGTTGAAAAG	AACCGACTTA	TGGAGGACCG	TAACACTGAA
360	GCTTTAGGGc	CTCGAAATA	AGCTGGTTCT	ACCTGGAGAT	TTCCAATCGA	AGCGGAGAAA
420	CCCTCTCGGG	GaCGAgGGGC	GCACTGTTTG	TGGAGGTAGA	TGATGATTAT	TAGCCTCAAG
480	aGAACATGGG	TTGGGGAGTC	TTAATTTAAC	CGAATGCCAA	AGACAAACTC	tTACCAATTc
540	CCCAAAATAT	CAGCTAAGGT	CCCAGACCAC	AGGGAAACAG	CGTGTTCGAA	TGATAAGGTC
600	TTAGAAGCAG	GGATGTTGGC	AGACAACTGA	TGGCGTTGCC	GAAAAGGATG	ATGTTAAGTG
660	CCGAAAATGT	TGACACTGCG	CTAGTCGAAG	TAATAGCTCA	AAAGAGTGCG	CCATCATTTT
677					AAACnAT	GACCGGGCnT

## (2) INFORMATION FOR SEQ ID NO: 3747:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 417 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3747:

GTCCAATGAT TCATATGCTT TATTATCACG GTATTGCCTT TGAATCGCAT GCACAAAATA 60

TGATGCTCAT TCATGA	AAAT GGTTGGCCTA C	CACGTATTGC	CTTAAAAGAT	TTCCATGATG	120
GTGTTCGTTT TAAGCG	TGAC ATTTAAGTGA A	AGCTGCTTCA	CACCTGACAT	TAAAGCCAAT	180
GCCAGAAGCA CATAAA	AAAG TGAATAGTAA T	TTCATTTATT	GAAAC <b>A</b> ATG A	ACGAACGTTT	240
AGTACGCGAC TTTTTA	CATG ATGCATTTTT C	CTTTATTAAT	ATCGCCGAAA	TCATCTTATT	300
TATTGAAAAG CAATAT	GGTA TCGATGAGGA G	GCTGCAATGG	cAATGGGkTa	AAGGCATCAT	360
CGAGGCGTAT CCAGrA	GCAT TTCCaGAGTT k	kGAATaACTA	TCCAACCATT	CGGTTTT	417
(O) THEODMARTON R	OD CEO ID NO. 374	40.			

### (2) INFORMATION FOR SEQ ID NO: 3748:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 378:

ATGCTCTCCC	AGCTGAGCTA	ATTCTCCGAT	TTAAAACTGC	CTGGCAACGT	TCTACTCTAG	60
CGGAACGTAA	GTTCGACTAC	CATCGACGCT	AAGGAGCTTA	ACTTCTGTGT	TCGGCATGGG	120
AACAGGTGTG	ACCTCCTTGC	TATAGTCACC	AGACATATGA	ATGTAATTTA	TACATTCAAA	180
ACTAGATAGT	AAGTAAAAGT	GATTTTGCTT	CGCAAAACAT	TTATTTTGAT	TAAGTCTTCG	240
ATCGATTAGT	ATTCGTCAGC	TCCACATGTC	ACCATGCTTC	CACCTCGAAC	CTATTAACCT	300
CATCATCTTT	GAGGGATCTT	ATAACCGAAG	TTGGGAAATC	TCATCTTGAG	GGGGGCTTCA	360
TGCTTAGATG	CTTTCAGCAC	TTATCCCGTC	CACACATAGC			400

## (2) INFORMATION FOR SEQ ID NO: 3749:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3749:

TCGGCTCTCG	CTTACTCATT	TAGCTCTACT	AAACTCGTTG	CGCTCTTTTC	TCGTTTCGTC	60
AGATTCAAAC	GTTTTCACTT	CGCCAAGCCA	TTTTTCTTTG	TGTTTACTTT	TTATTTTGAC	120
GTTTTAGGCA	TAAAAAAAAG	AGACCTTGCG	GTCTCAATGC	GGCTCATCGC	ATCCATTTTT	180
TGCCTGGCAA	CGTTCTACTC	TAGCGGAAGT	AAGTTGGGCT	ACCATCGTCG	CTAAAGACCT	240
TTCTTGACTT	GTGACAATCG	CTTGCTTCTT	TCCTCTCCTT	CGGCTCTCGC	TTACTCATTT	300

AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC	360
GCCAAGCCAT TTTTTCTTTG TGTMACTTT TTAATTTTGA	400
(2) INFORMATION FOR SEQ ID NO: 3750:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3750:	
ATAAAAAAA GAGACCTTGC GGTCTCAAAT GCGGCTCATC GCATCCATTT TTTGCCTGGC	60
AACGTTCTAC TCTAGCGGAA CGTAAGTTGG CTACCATCGT CGCTAAAGAC CTTTCTTGAC	120
TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTACTCAT TTAGCTCTAC	180
TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT TCGCCAAGCC	240
ATTTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAA GAGACCTTGC	300
GGTCTCAATG CGGCTCATCG CATCCATTTT TTGCCTGGGC AACGTTCTAC TCTAGCGGAA	360
nTAAnTTGGG CTACCATCGA CGCTAAGAAC CTTTCTTGGA	400
(2) INFORMATION FOR SEQ ID NO: 3751:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3751:	
CACTCACCGC AGATnTTTAA GTCCTGTGCG TCTGCCAGTT CCGCCACCCC GGCACTATAA	60
AAATGGAGCA GAAGACGGGA TTCGAACCCG CGACCCCAAC CTTGGCAAGG TTGTATTCTA	120
CCGCTGAACT ACTTCTGCAT ATGCGGGTGA AGGGAGTCGA ACCCCCACGC CGTAAGCTnA	180
GnATTCCTAA GTCTAGTGCG TCTGCCAATT CCGCCACACC CGCAAATGGT GAGCCATAGA	240
GGATTCGAAC CTCTGGACCC TCTGATTAAA AGTCAGATGC TCTACCAACT GGAGCTAATG	300
GCTCTTTCCA TGGTGCCCGG CCAGAGGACT TGGAACCCCC AACCTATGA TTACAAGTCA	360
GTTGCTCTAA CCAATTGAGC TAAGCCGGGC AATATGTTAn	400

- (2) INFORMATION FOR SEQ ID NO: 3752:
  - (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3752:

TTANANANCC GCGACATTAT AGAGCCAATC ACTAGCCTAT CTCAGAATCA	CCAACGAATC	60
CTTCATTATT AAGGAATCTA GGCATCTTTA CGGCGTGGTT CTAATCGCAT	CTTTTTCAAT	210
CTAAGTGCGT TTGTGACAAC ACTTACTGAA CTTAGTGCCA TTGCAGCACC	AGCAACCCAT	180
GGCGCAAGTA AGCCCAATGC AGCTATAGGG ATACCGGCAA TATTATAGCC	GAATGCCCAA	240
AATAGATTTT GACGAATATT ACGAATGGTT GCTTTACTTG CATAAATGGC	TTTAGGaATa	300
AGCATCAAGT cGCCACCAAG AATAGTAATA TCAGCTGCTT CAATGGGCAA	CTTCTGTTAC	360
CTGGTACCAA TGGGCGATAC CGGATATCAG CTTTTAACTA		400

## (2) INFORMATION FOR SEQ ID NO: 3753:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3753:

CCTTGCGGTC	TCAATGGCGG	CTCATCGCAT	CCATTTTTTG	CCTGGCAACG	TTCTACTCTA	60
GCGGAACGTA	AGTT <b>GG</b> CTAC	CATCGTCGCT	AAAGACCTTT	CTGACTTGT	GACAATCGCT	120
TGCTTCTTTC	CTCTCCTTCG	GCTCTCGCTT	ACTCATTTAG	CTCTACTAAA	CTCGTTGCGC	180
TCTTTTCTCG	TTTCGTCAGA	TTCAAACGTT	TTCACTTCGC	CAAGCCATTT	TTCTTTGTGT	240
TTACTTTTTA	TTTTGACGTT	TTAGACATAA	AAAAAAGAGA	CCTTGCGGTC	TCAATGCGGC	300
TCATCGCATC	CATTTTTTGC	CTGGCAACGT	TCTACTCTAG	CGGAACGTAA	GTGGCTACCA	360
TCGACGCTAA	GAACCTTTCT	TGACTGGTGA	CAAnCGCTTG			400

### (2) INFORMATION FOR SEQ ID NO: 3754:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3754:

CTGAGCTAAG CCCCCAAATA GGTATTAAAT TAATGGTGGG CCTAAGTGGA CTCGnACCAC

CGACCTCACG CTTATCA	GCC GTGCGCTCTA AC	CCAGCTGAG CTATAGGCCC	ATTAATTTGA 120
ATGAnCAAAC ATTCAAA	ACT GAATACAATA TO	GTCACGTTA TTCCGCATCT	TCTGAAGAAG 180
ATGTTCCGAA TATATCC	TTA GAAAGGAnGT GA	ATCCAGCCG CACCTTCCGA	TACGGCTACC 240
TTGTTACGAC TTCACCC	CAA TCATTTGTCC CA	ACCTTCGAC GGCAGCTCC 1	AAAAGGTTA 300
CTCCACCGGC TTCGGGT	GTT ACAAACTCTC G	TGGTGTGAC GGGCGGTGTG	TACAAAACCC 360
GGGAACGTAT TCACCGT	AGC A		381

## (2) INFORMATION FOR SEQ ID NO: 3755:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3755:

AGCTCCCCAA AGCATATCGT CGTTAGTAAC GTCCTTCATC GGCTTCTAGT GCCAAGGCAT 60

CCCCGTGCGC CCTTAATAAC TTAATCTATG TTTCCACCAT TTTTATAAGT CAAACGTTAA 120

CATGAAGTTA CGTTCTTTTA TAAAAAAGATT TAAACGCGTT ATTAATCTTG TGAGTGTTCT 180

TTCGAACATA GGCGATTATT TCTTATGAAT TCAAGCTTAT TTAAAACTCT TTATTCACTC 240

GGTTTTGCTT GGTAAAAACn ATATTTTACT TACTTATCTA GTTTTCAATG TACAATTTCT 300

TTTTAGTCAA GCGCTCGCAT ACTGCTTTAT TTTCCATAAG CAATANCACT TTAACCAAAA 360

AATATTTGGA ATGTTNAAAT AAACATNCAA AACTGAATAC 400

#### (2) INFORMATION FOR SEQ ID NO: 3756:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3756:

CTACTCACAC CGGCATTCTC ACTTCTAAGC GCTCCACATGTCCTTACGAT CATGCTTCAA 60

CGCCCTTAGA ACGCTCTCT ACCATTGTCC AAAGGCATGC GCACAGCTTC GGTAATATGT 120

TTAGCCCCGG TACATTTTCG GCGCATGTCA CTCGACTAGT GAGCTATTAC GCACTCTTTA 180

AATGGATGGC TGCTTCTAAG CCAACATCCT AGTTGTCTGG GCAACGCCAC ATCCTTTTCC 40

ACTTAACATA TATTTTGGGA CCTTAGCTGG TGGTCTGGGC TGTTTCCGGn GGGGnACACG 300

GACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG ATTTGTCTGA 360

ATCGGTAACC	CGAGAGGGCC	CnTCGTCCAA	ACAGTGCTCT

- (2) INFORMATION FOR SEQ ID NO: 3757:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 458 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3757:

GGCAGATGCT CTCCCACCTG AGCTAATTCT CCGATTTAAA ACTGCCTGGC AACGT	TCTAC 60
TCTAGCGGAA CGTAAGTTCG ACTACCATCG ACGCTAAGGA GCTTAACTTC TGTGT	TTCGGC 120
ATGGGAACAG GTGTGACCTC CTTGCTATAG TCACCAGACA TATGAATGTA ATTTA	ATACAT 180
TCAAAACTAG ATAGTAAGTA AAAGTGATTT TGCTTCGCAA AAATTTATT TTGAT	TAAGT 240
CTTCGATCGA TTAGTATTCG TCAGCTCCAC ATGTCACCAT GCTTCCACCT CGAAC	CCTATT 300
AACCTCATCA TCTTTGAGGG aTCTTATAAC CGAArTttGG GAAtCTCATC TTGAG	GGGGG 360
gCTCATGCtT AGATGCTTcA GCACTTATCC CGTCCACACA TAGCTAnCCA GCTAT	rGCCGT 420
TnGCACGACA ACTGGTACAC CAGANGTATG TCCATCCC	458

- (2) INFORMATION FOR SEQ ID NO: 3758:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3758:

AGCGCTCGCA TACTGCTTTA TTTTCAAAAA ATCAAATGCT CATTTACAAA AGTAAA	ACTCC 60
GCTTTAATTT TTCTTAATGC ATTGTCTAAC AACCGCTTTC TTTAAAAAGA ATAGAT	TTGTC 120
AAGCGCTCGC ATAAGCAATA TCACTTTAAC CAAAAAATAT TTGAATGTTA AATAAA	CATT 180
CAAAACTGAA TACAATATGT CACGTTATTC CGCATCTTCT GAAGAAGATG TTCCGA	AATAT 240
ATCCTTAGAA AGGAGGTGAT CCAGCCGCAC CTTCCGATAC GGCTACCTTG TTACGA	ACTTC 300
ACCCCAATCA TTTGTCCCAC CTTCGACGGC TAGCTCCTAA AAGGTACTC CACCGGC	CTTC 360
GGGTGTTACA AACTCTCGTG GTGTGACGGG CGGTGTGTAC	400

- (2) INFORMATION FOR SEQ ID NO: 3759:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs

(B)	TYPE:	nucleic	acid
(C)	STRANI	DEDNESS:	double

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3759:

GACTTGGGTA	TTCCTCCAAA	ATTATATGGA	CCTTGCAGGA	CTCGAACCTG	CGACCGAACG	60
GTTATGAGCC	GTTAGCTCTA	ACCAACTGAG	CTAAAGGTCC	TAAATATAAT	TTTACAACTA	120
ATAAATAGTG	GCGGTGGAGG	GGATCGAACC	CCCGACCTCA	CGGGTATGAA	CCGTACGCTC	180
TAGCCAGCTG	AGCTACACCG	CCTTATATAG	TTTGTAAATA	ATATGGTGGA	GACTAGCGGG	240
ATCGAACCGC	TGACCTCCTG	CGTGCAAAGC	AGCCGCTCTC	CCAGCTGAGC	TAAGCCCCCA	300
TAATAATTAC	AGTATATCGG	GAAGACAGGA	TTCGAACCTG	CGACCCCTTG	GTCCCAAACC	360
AAGTGCTCTA	CCAAGCTGAA	GCTACTTTCC	CGTATAATTA			400

## (2) INFORMATION FOR SEQ ID NO: 3760:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3760:

CACTTAATGC	CCGTACCACA	CATAGCTACC	CAGCTATGCC	GTTGGCACGA	CAACTGGTAC	60
ACCAGAGGTA	TGTCCATCCC	GGTCCTCTCG	TACTAAGGAC	AGCTCCTCTC A	AAATTTCCTA	120
CGCCCACGAC	GGATAGGGAC	CGAACTGTCT	CACGACGTTC	TGAACCCAGC	TCGCGTACCG	180
CTTTAATGGG	CGAACAGCAA	nCCCTTGGGA	CCGACTACAG	CCCCAGGATG	CGATGAGCCG ·	240
ACATCGAGGT	GCCAAACCTC	CCCGTCGATG	TGAACTCTTG	GGGGAGATAA	GCCTGTTATC	080
CCCGGGGTAG	CTTTTATnCG	TTGAGCGATG	GnCCTTnCAT	GCGGAACACC	GGATCACTAA	360
GTCCGTCTTT	CGACCCTGCT	CGACTTGTAG	GTCTCGCAGT			400

## (2) INFORMATION FOR SEQ ID NO: 3761:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 623 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3761:

TATGTATTTT ATAATGTACA GCTCGTTGAn TCnTATTTTT CCTTATATTA AGTGCCATTA 60

ATACAAAACC	TAGCTCTCGT	TTAACTTTAT	TTATTCCTCG	AACTGACATT	CGAGTGAACC	120
CAAAATAGCC	TTCATAAATC	CAAAAACAGG	CTCTACATCA	ATTTTTCTTT	GACTATAGAT	180
TTTTTTCGTT	TCTGGTTCAG	AAAGCTTTTG	ATTAATTTGG	ACTTTAAAGT	ATTCCCAATT	240
ATAATTCTTC	ATGATTTTCT	TATTGGATTT	CGAATTTGGT	TCATGCATT	GATGTCTCAA	300
AGAACATGAT	GAACAGTCAT	CACATTCATA	TAGTTTGAAG	TCTCGTTTAA	AACCATATCT	360
ATCATTACGG	TATGCATATC	TTTTAAAACC	TATTCTTTTG	TTATTAGGAC	ATATAAATTC	420
ATCATTAAGT	TCGTCATATT	TCCAATTTTA	AGTGTTGAAA	ATGTCACTTT	TAAACTTTCT	480
AGTTTTATCT	TTAATAAACA	TGCCATACGT	AATAAGT <b>G</b> GC	GTnTTATTAA	AATCATCGAT	540
AATAGCCATA	TAGTTTTGCT	CACTACCATA	ACCGGCATCA	GCTACAAATA	TACTCCGGTA	600
AATAACCGAG	GGATTGTTGG	AAT				623

## (2) INFORMATION FOR SEQ ID NO: 3762:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 718 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3762:

ATTTTAAAAA	TAGTTCTTTA	AATTATATAC	CCACCACATT	TGGTGGAGAA	CCTAAAAAAA	60
AGCACTTCCC	AAAAATGGAA	AGTGCAAGTA	GTGAGCCATA	GAGGATTCGA	ACCTCTGACC	120
CTCTGATTAA	AAGTCAGATG	CTCTACCAAC	TGAGCTAATG	GCTCTAATGG	CTGGGCCTAG	180
CTGGATTCGA	ACCAACGAGT	GACGGAGTCA	AAGTCCGTTG	CCTACCGCT	TGGCTATAGC	240
CCAATATATA	GATGGTGGAG	GGGGGCAGAT	TCGAACTGCC	GAACCCGAAG	GAGCGGATTT	300
ACAGTCCGCC	GCGTTTAGCC	ACTTCGCTAC	CCCTCCAGCT	TATTCATATA	ATTTAATAAT	360
CaAAATGGTG	GaGAATGACG	GGTTCGAACC	GCCGACCCTC	TGCTTGTAAG	GCAGATGCTC	420
TCCCAGCTGA	GCTAATTCTC	CAAAATAATG	ACTCCTACGG	GACTCGAACC	CGTGTTACCG	480
CCGTGAAAGG	GCGGTGTCTT	AACCGCTTGA	CCAAGGAGCC	ATGGCTCCAC	AGGTAGGACT	540
CGAACCTTAC	GACCGATCGG	TTTAACAGCC	GATAGCTCTT	ACCACTGGAG	CTACTGTGGG	600
ATTAATATTA	TGCCTGGGCA	ACGTTCTTAC	TCTTAGCGGA	ACGTTAAGTT	CCGACTTACC	660
ATCCGACGCT	AAGGAGCTTT	AACTTTCTnG	TGGTTCCGGC	ATGGGGGAA	CAGGTGGT	718

(2) INFORMATION FOR SEQ ID NO: 3763:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs

- (B) TYPE: nwleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3763:

TnCACTCACC	GCAGATTTTT	AAGTCCTGTG	CGTCTGCCAG	TTCCGCCACC	CCGGCACTAT	60
AAAAATGGAG	CAGAAGACGG	GATTCGAACC	CGCGACCCCA	ACCTTGCAA	GGTTGTATTC	120
TACCGCTGAA	CTACTTCTGC	ATATGCGGGT	GAAGGGAGTC	GAACCCCCAC	GCCGTAAGCT	180
nAGGATCCTA	AGTCTAGTGC	GTCTGCCAAT	TCCGCCACAC	CCGCAAATGG	TGAGCCATAG	240
	CCTCTGGACC	CTCTGATTAA	AAGTCAGATG	CTCTACCAAC	TGGAGCTAAT	300
GGCTCTTCCA	TGGTGCCGGC	CAGAGGACTT	GGAACCCCCA	ACCTACTGGA	TTTACAAGTT	360
CAATTGCTCT	Ancaatttga	GCTAAGGCCG	GGCAATATGT			400

## (2) INFORMATION FOR SEQ ID NO: 3764:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 610 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3764:

TTAAAGTATT	CCCAATTATA	ATTCTTCATG	ATTTTCTTAT	TGGATTTCGA	ATTTGGTTTC	60
ATGCATTGAT	GTCTCAAAGA	ACATGATGAA	CAGTCATCAC	ATTCATATAG	TTTGAAGTCT	120
CGTTTAAAAC	CATATCTATC	ATTACGGTAT	GCATATCTTT	TAAAACCTAT	TCTTTTGTTA	180
TTAGGACATA	TAAATTCATT	ATTAAGTTCG	TCATATTTCC	AATTTTGAGT	GTTGAAAATG	240
CCACTTTTAA	ACTTTCTAGT	TTTATCTTTA	ATAAACATGC	CATACGTAT	AAGTGGCGTT	300
TTATTAAAAT	CATCTATAAT	AGCCATATAG	TTTTGCTCAC	TACCATAACC	TGCATCAGCT	360
ACAATATACT	CTGGTAAATA	ACCGAaGGaT	TTTGAATCAT	TGTTAAAAAT	GGGATTAATG	420
TTCTAGTATC	TGTTGGGTTT	TGAAATAGGT	CATAGGATAA	AACAAATTGr	GAATTTGTCG	480
CTATTTGgTA	AATTGGTATC	CTGGCTTAAG	TTGGGCCATT	TTTCCATATG	GGCCTTCCTT	540
CCATTCTCCA	TAAAAGTTGG	CATCATGGAT	CCAGATCCnG	TTTTAGGAAA	ACCTAATTCC	600
AACCTTTAAG						610

## (2) INFORMATION FOR SEQ ID NO: 3/65:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3765:

CTTCTTGGTG	CTGCATATCC	CCTACAATAA	TTAAACCTTT	TTTCTTATTT	AAAATGTGTC	60
TTAATGCCGA	TGCATCTATA	CTTTTTTGAT	AGTGCGGTAA	AATCTTCATC	TCAGAnGTTA	120
ACAATTCTGT	TGCATTCAAA	TCAGGTGTTA	ACGGATCTCT	AAATGGCAAG	TTAAAATGAA	180
TTGGCCCTTT	ATGTGGTCCA	TATAAATATT	GACTAGCAAT	TTGCATTTGA	ragtaaattg	240
CACAATGGTC	TCTTTACTAT	CATCCGCAAT	AGGCATATCG	AACTCATAnC	TTACATAATT	300
ATTAAACATA	TTTACTTGAT	TAATCGCTTG	TGGTGCGCCT	ACAnttCttA	ATTCAGCGGA	360
CGGTCACTTG	TTAAAACGGT	TTAAGGTATT	CTACTAATTn			400

- (2) INFORMATION FOR SEQ ID NO: 3766:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 451 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3766:

CnTTTAACCT TT	TTAAGGAA TCCTGCTA	AT GCGGGTTTTG	GCATTTTCGA	nTnTTTrGTA	60
tCTCACGCAA tC	TTGGTGGT CATTCAGT	TC GTATATGGCA	TCCATTAAGA	CGCGAAGATC	120
AAATGGACTA TT	GATGACTT CTGGAATA	CC ACGATCTATA	TTTAGTAATT	GATAAACAGC	180
TTCCATGGCA GT	ACGAACCG AATATICTO	T TGTAAATACA	GTGTCTCGCT	CTGTTTCTGC	240
AAAGTTACCA AT	AAATGCTA AGTTCTGA	GA TTGATGCGGG	ACGACTAAAG	GTCTGTCGCC	300
GATAGCACGC GT	CATGAAAT AAGATGTG	AT ATATGGCATA	TAAACAGGgA	ATCGTATTAG	360
ATGCATGTnT TG	CTAAGTCT TCAATTTT	GG TCAGTTGATA	CACCTAAGTG	<b>E</b> TACAGCCA	420
TTCTTGGCAT AT	TTCATTAC CACTACAT	nC T			451

- (2) INFORMATION FOR SEQ ID NO: 3767:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3767:

ACACGTGAAC	GTCTTCAAAT	GGAAGTACGT	GACGTTCACT	ACTCTCACTA	TGGCCGTATG	60
TGTCCAATTG	AAACACCTGA	GGGACCAAAC	ATTGGATTGA	TTAACTCATT	ATCAAGTTAT	120
GCACGTGTAA	ATGAATTCGG	CTTTATTGAA	ACACCATATC	GTAAAGTTGA	TTTAGATACA	180
CATGCTATCA	CTGATCAAAT	TGACTATTTA	ACAGCTGACG	AAGAAGATAG	CTATGTTGTA	240
GCACAAGCAA	ACTCTAAATT	AGATGAAAAT	GGTCGTTTCA	TGGATGATGA	AGTTGTATGT	300
CGTTTCCGTG	GTAACAATAC	AGTTATGŒT	AAAGAAAAA	TGGATTATAT	GGATGTATCG	360
CCGAACCAAG	TTGTTTCAGC	AGCGACACAT	GTATTCCATT			400

## (2) INFORMATION FOR SEQ ID NO: 3768:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3768:

CCTACGACCG	ATCGGTTAAC	AGCCGATAGC	TCTACCACTG	AGCTACTGTG	GATTAATATT	60
ATGCCTGGCA	ACGTTCTACT	CTAGCGGAAn	TAAGTTCGTA	CTACCATGA	CGCTAAGGAG	120
CTTAACTTCT	GTGTTCGGCA	TGGGAACAGG	TGTGACCTCC	TTGCTATAGT	CACCAGACAT	180
ATGAATGTAA	TTTATACATT	CAAAACTAGA	TAGTAAGTAA	AAGTGATTTT	GCTTCGCAAA	240
ACATTTATTT	TGATTAAGTC	TTCGATCGAT	TAGTATTCGT	CnGCTCCACA	TGTCACCATG	300
CTTCCACCTC	GAACCTATTA	ACCTCATCAT	CTTTGAGGGA	TCTTATAACC	GAAGTTGGGG	360
AAATCTCATC	CTGnAGGGGG	CTTCATGCTT	AGATGCTTTC			400

- (2) INFORMATION FOR SEQ ID NO: .3769:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3769:

CTTGACCGAA	GTTCTTACCT	ACATCACCTA	AATTAATGAC	ATGTCCACCA	GTCATATACT	60
CTAATCCATG	GTCGCCGATA	CCTTCAACGA	CAACATCTAC	ACCACTATTT	CTAATACAGA	120
ATCTTTCTnC	TGCACTACCG	TTAATAAATG	CCTTACCACT	TGTCGCACCA	TAGAATGAGA	180
CGTTACCAGC	AATAATTTCA	TTTTGTCGTT	CTTCAAAAGG	TGCTTTGACA	ATGACCG <b>T</b> AC	240
CACCAGATAA	TCCTTTACCA	ACATAGTCAT	TCGCATCTCC	AGTATGATGA	ATCATTAAGC	300

CTTTCGGTGC ATATGCTGCA GGACTTTGGA CCAGCATGAC CATTCGTATA AACATTAATT	360
GTATTTCAG GGAGGTCCTG CTTCTCCATA TTGTTTCGGA	400
(2) INFORMATION FOR SEQ ID NO: 3770:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3770:	
CATTACGTAA TTAAAAGATA GTCATTAAGA GAGGnTGATA ACCATGCAAG AAGCATACAT	60
TGTAGCTTAT GGGCGTTCAG CGCAGCGAAA CAAAGCAAGG CGCATTATTC CACGAAAGAC	120
CTGATGATGT CGCAGCCAAA GTATTACAAG GCGTATTGAA ACGTATTGAC GGAAAATTCA	180
ATAAGAATAT GATTGAAGAT GTCATTGTTG GTACGGCTTT TCCAGAAGGA TTACAAGGCC	240
AAAACATTGC ACGAACGATT GCATT@GTG CGGGATTATC TGACACGGTA CCGGTCAAAC	300
AGTGGAATCG CTACTGCTCA TCCAGGnTTT ACAAACCATT CGCGATTGCA GGCCAATCAA	360
ATTATGGCnG GTCCAAGGAG ATATACTTGT TAGCTGGTGG	400
(2) INFORMATION FOR SEQ ID NO: 3771:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3771:	
ACTCTCTTGC Antaagggca gggaatgacc gatgggatta aaagataag ctgttacctg	60
GGGAAGGTAT TTTCATCAAT TTCCAGAACT ATCCGATAAA GAATTTAAGA CTACACAAAA	120
AATTAAAGAT ATTTTAACAG AACATCATAT TAGAATATTA GACTTACCAC TTGCGACTGG	180
GCTTGTTGCT GAAGTGGGAC AAGGTCTGAG TTGTATAGCT GTTCGGGCTG ACATTGATGC	240
TTTACCGATT CAAGAGCTTG TTGAACAGGA TTTTAAATCT GAAAATGAAG GTGTTATGCA	300
TGCGTGTGGT CATGATATTC ACATGGCTAG nATTTTGGCT ACAGCTGGTA AAATTAAAAG	360
AGATTGAGGG CACTCTTACT GGGCGTGTTA AATCCATTTG	400
(2) INFORMATION FOR SEQ ID NO: 3772:	
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 400 base pairs

(B)	TYPE: nucleic	acid
(C)	STRANDEDNESS:	double

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3772:

TTTATTTTGA	CGTTTTAGAC	ATAAAAAAA	GAGACCTTGC	GGTCTCAATG	CGGCTCATCG	60
CATCCATTTT	TTGCCTGGCA	ACGTTCTACT	CTAGCGGAAC	GTAAGTTGGC	TACCATCGAC	120
GCTAAGAACC	TTTCTTGACT	TGTGACAATC	GCTTGCTTCT	TTCCTCTTCT	TCGGCTCTCG	180
CTTACTCATT	TAGCTCTACT	AAACTCGTTG	CGCTCTTTTC	TCGTTTCGC	AGATTCAAAC	240
GTTTTCACTT	CGCCAAGCCA	TTTTTCTTTG	TGTTTGCTTT	TTATTTTGAC	GTTTTAGACA	300
TAAAAAAAAG	AGACCTTGCG	GTCTCAATGC	GGCTCATCGC	ATCCATTTTT	TGCCTGGGCA	360
ACGTTCTACT	CTAGCGGGAA	CGGTAAGTTC	GGACTTACCA			400

## (2) INFORMATION FOR SEQ ID NO: 3773:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3773:

TTGATATTCC TG	TACCACCT ATAATCGTT1	TAATCGATGG	GGGGACGCAT	AGGnATAGGC	60
GACGTGCGAT TG	GATTGCAC GTCTAAGCAG	TAAGGCTGAG	TATTAGGCAA	ATCCGGTACT	120
CGTTAAGGCT GA	GCTGTGAT GGGGAGAAGA	CATTGTGTCT	TCGAGTCGTT	GATTTCACAC	180
TGCCGAGAAA AG	CCTCTAGA TAGAAATAG	GTGCCCGTAC	CGCAAACCGA	CACAGGTAGT	240
CAAGATGAGA AT	TCTAAGGT GAGCGAGCGA	ACTCTCGTTA	AGGAACTCGG	CAAAATGACC	300
CCGTAACTTC GG	GAGAAGGG TGCTCTTTAA	GGTTAACGCC	CAGAAGAGCC	GCATGGAATA	360
GGCCCAnCGA nG	TTTATTCA AAAACACAGI	CTCTGCTAAA			400

## (2) INFORMATION FOR SEQ ID NO: 3774:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3774:

TACTTAGACA ATCGAAAGTG TACATTATTA AATTATCATT TCCAGTTCTA CTCTAGCGGA 60

ACGTAAGTTG	GCTACCATCC	TCGCTAAGAA	CCTTTCTTGA	CTTGTGACAA	TCGCTTGCTT	120
CTTTCCTCTC	CTTCGGCTCT	CACTTACTCA	TTTAGCTCTA	CTAAACTCGT	TGCGTTCTTT	180
TCTCGTTTCG	TCAGATTCAA	ACGTTTTCAC	TTCGCCAAGC	CATTTTTCTT	TGTGTTTGCT	240
TTTTATTTTG	ACGTTTTAGA	САТАААААА	AGAGACCTTG	CGGTCTCAAA	TGCGGCTCAT	300
CGCATCCATT	TTTTGCCGGC	AACGTTCTAC	TCTAGCGGAA	CTAAAGTCGn	ACTTACCATC	360
GACGCTAAGG	AGCTTAAACT	TCTGTGTTTC	GGCATGGGGA			400

#### (2) INFORMATION FOR SEQ ID NO: 3775:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3775:

CGGTTTATCA AGAATGGAA	A GAGTTGTACG	TGAAAGAATG	TCAATTCAAG	ATACTGAGTC	60
TATCACACCT CAACAATTAA	TTAATATTCG	ACCTGTTATT	GCATCTATTA	AAGAATTCTT	120
TGGTAGCTCT CAATTATCAC	CAATTCATGGA	CCAAGCAAAC	CCATTACTG A	AGTTAACGCA	180
TAAACGTCGT CTATCAGCAT	TAGGACCTGG	TGGTTTAACA	CGTGAACGGC	TCAAATGGAA	240
GTACGTGACG TTCACTACTC	CTCACTATGGC	CGGTGTGTCC	AATTGAAACA	CCTGAGGGAC	300
CAAACATTGG ATTGATTAAC	C TCATTATCAG	TTATGCACGT	GTAAATGGAA	TTCGGCTTTA	360
TTGAAACACC ATATCGTAAA	AGTTGATTTG	GnTACACAGC			400

## (2) INFORMATION FOR SEQ ID NO: 3776:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3776:

AGCTTACTTA	CAGCTCCCCA	AAGCATATCG	TCGTTAGTAA	CGTCCTTCAT	CGGCTTCTAG	60
TGCCAAGGCA	TCCACCGTGC	GCCCTTAATA	ACTTAATCTA	TGTTTCCACC	ATTTTTATAA	120
GTCAAACGCT	CACATACGGC	TTCGTTTTCA	TTATTTTAAA	TGCTCATTTA	CATAAGTAAA	180
CTCTGCTTTA	AAATAATTTA	ACTCATTGTC	TGCTAAACGT	TTTCTTTTAT	AAAAAGATTT	240
AAACGCGTTA	TTAATCTTGT	GAGTGTTCTT	TCGAACnTAG	GCGATTATTT	CTTATGGAAT	300

TCAAGCTTAT TTAAAACTCT TTATTCACTC GGTTTTTGCCT GGGTAAA%C TAnATTTTAC	360
TTACnTATCT AGGTTTTCAA TGTACAAATA ATGGTGGGGC	400
(2) INFORMATION FOR SEQ ID NO: 3777:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3777:	
AATTATAAAA TTAAATGGCG GTCTCGACGG GAATCGAACC CGCGATCTCC TGCGTGACAG	60
GCAGGCGTGT TAACCnCTAC ACTACGAGAC CATTAGTAAA ACGGAGGAAG AGGGATTCGA	120
ACCCCCGCGA GCCGTTAAGC CCCTGTCGGT TTTCAAGACC GATCCCTTCA GCCGGACTTG	180
GGTATTCCTC CAAAATTATA TGGACCTTGC AGGACTCGAA CCTGCGACCG AACGGTTATG	240
AGCCGTTAGC TCTAACCAAC TGAGCTAAAG GTCCTAAATA TAATTTTACA ACTAATAAAT	300
AGTGGCGGTG GAGGGGATCG AACCCCGAC CTCACGGGTA TGAACCGTAC GCTCTAGCCA	360
GCTGAGCTAC ACCGCCTTAT ATAGTTTGTA AATAATATGG	400
(2) INFORMATION FOR SEQ ID NO: 3778:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3778:	
CAAATCCTGC ACCATCAGAA AGTGGGGCAG ATGTTCCTGC AGTCATAGTG CCGTCAGCTT	60
TAAATACTGT ACGTAATTTG GCTAATGCCT CCATCGTGGT GTCAGGCGT ATAAATTCAT	120
CTTGGTCAAA GATATTTGTG TGTACTTTTG GTCCTGCGTT TGTATATTCA ACTGAGTTTA	180
CTTGTATTGG AATAATTTCA TCTTTGAACC GACCATCACG TTGTGCGTCA TAGGCACGTT	240
GaTGACTTCT GACAGCATAA GCATCTTGaT CTTCGCGTGA TACGTCAAAT TGGGATGCTA	300
CATTTTCAG CAGTTAAACC CATAGGATAT GACGCACCTA TATCATCALA TTGTAAGGTT	360
GGATTGTTTG TGGGCTTCGT TnGCCACCnn TTGGTACGGC	400

- (2) INFORMATION FOR SEQ ID NO: 3779:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid

(C)	STRANDEDNESS:	double
10		

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3779:

CCTATCAATA ACGGGATTTC ATTGAAATAA TACACAATCA TGTATGGTCA TGCTTATTGC 60

CAATCTAAAT CGTTCAAATT TGGCACAACG ACAAATAAGG CTTCAACACG AATATATTCT 120

CTCGGTTGAA ACCTTACTTA TTCATTTATT TTTTATAAAT TAGTGACATA ACACTGTATT 180

AGCATCTGCA CGATCGGTTG AAATATATGT TACATTTTCT TGCTGCTTAA TAAATGCATC 240

ATAGTAATCA TATTGCGACG AATGATATGT GCCATTCGAT GTATCÆTTG GGTTTAGCAA 300

ACAGCCATAA CCTTCGTCAT ATAAATGTTC ACNGAGCATA AGGGGCGTCA TGTTTTAGAA 360

CCACCTTACC TACATAAAAT TNGCCTCCAT AGGGATCATA

#### (2) INFORMATION FOR SEQ ID NO: 3780:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3780:

ATGGnCGGTC TCGACGGGAA TCGCAACCCG CGATCTCCTG CGTGCACACN CAGGCGTGTT 60

AACCGCTACA CTACGAGACC ATTAGTAAAA CGGAGGAAGA GGGATTCGAA CCCCCGCGAG 120

CCGTTAAGCC CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC 180

AAAATTATAT GGACCTTGCA GGACTCGAAC CTGCGACCGA ACGGTTATGA GCCGTTAGCT 240

CTAACCAACT GAGCTAAAGG TCCTAAAATAT AATTTTACAA CTAATAAATA GTGGCGGTGG 300

AGGGGATCGA ACCCCCGACC TCACGGGTAT GAACCGTACG CTCTAGCCAG CTGAGCTACA 360

CCGCCTTATA TAGTTTGTAA ATAATATGGT GGAGACTAGC

#### (2) INFORMATION FOR SEQ ID NO: 3781:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3781:

AACCACATCT TTATCAAGTT TCATATTCGG AATACCATAC ATAATAAAC CGCCTGATTC

	TCTAGCACGT	TCATAAATAG	TTACTTGATA	TCCTAGTAGA	TTAAGTTCTT	CAGCAGCAGC	120
	TAATCCTGCT	GGACCGCTTC	CAACGATTGC	CACTTTTTCA	TCTCTACGGC	GACTCGGAAC	180
	TTTCGGCGCT	ACCCAACCAT	TTTCAAAAGC	TTCATCAATA	ATTGTGCGTT	CAATACCTTT	240
	AATCGCAATC	GATTCTCTAT	TAATCTTCAT	CACACAAGCA	CTTTCGCATG	GTGCAGGACA	300
	TACACGCCCT	GTAAAGTCAG	GAAAGTTATT	TGTTTCGCTT	AAGCGTCATA	AGCAGTTTTA	360
_	AAATCTTGAT	GATACACCAA	GTCGTCCAnT	CAGGATGGAG			400

## (2) INFORMATION FOR SEQ ID NO: 3782:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3782:

ACATGATGCG TGTGGTATE GTTTTATGC GAATATGGAT AATAAAAGGT CTCACGACAT 60
CATTGATAAA TCGCTTGAAA TGTTGCGACG CTTAGATCAC AGGGGCGGGG TCGGCGCAGA 120
TGGCATCACT GGTGATGGCG CAGGTATTAT GACTGAAATA CCTTTTGCAT TTTTCAAACA 180
ACATGTAACG GACTTTGATA TCCCAGGTGA AGGTGAATAT GCCGGGGGT TATTTTTTTC 240
CAAAGAACGC ATTTTAGGTT CTGAACATGA AGTAGTTTTT AAAAAAATATT TTGGAAGGCG 300
AnGGGTTATC AATTCTTGGT TAACGTAATG TACCAGTTAA TAAAAGATGC CATTGCCTAA 360
ACCATGTAGC AGATACGATG GCCAGTCATT CCACCAAGTG 400

#### (2) INFORMATION FOR SEQ ID NO: 3783:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 383:

AATCGGGTGA TGTTGGACGA TGATACGCAG GGAACGTTGC GTTATTCGTA TATGAAATAT 60
TGGATAACTG TTTTAACAAT GATGGTAGAG ATATTTCATC ATTTGTAACA TCGTCAATTT 120
TGATATTGTG ATGATTTAAC ATAACGACAT CATCGATATT GAATTGGTAT GAAAAACCTG 180
CTGTTGCTGA ATCTGTTAAT TTGGCTCCAA TATTTAAAAT TAAATCGCTG TTGTCCACAT 240
AATCTCGTAT TTTATCTTCG GCAATTTTCC CATCGTAAAT ACCCATATAA TATGGATTTT 300
CCTCATTAAA AGCACCTTTT CCTAATGAAA GTTGTGCTAC TGGGTATCTG TGTTTGANTT 360

ACAAAATCTT	CnAAGTCCTG	GATGGAGGTG	ΔΔΔΔΟΤΩΤΤΔ

- (2) INFORMATION FOR SEQ ID NO: 3784:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3784:

GGTACTAAGA	TGTTTCAGTT	CTCCGGGTGT	GCCTTCTGAT	ATGCTATGTA	TTCACATATC	60
GATAACATGA	CATAACTCAT	GCTGGGTTTC	CCCATTCGGA	AATCTCTGGA	TCAAAGCTTA	120
CTTACAGCTC	CCCAAAGCAT	ATCGTCGTTA	GTAACGTCCT	TCATCGGCTT	CTAGTGCCAA	810
GGCATCCACC	GTGCGCCCTT	AATAACTTAA	TCTATGTTTC	CACCATTTTT	ATAAGTCAAA	240
CGCTCACATA	CGGCTTCGTT	TTCATTATTT	TAAATGCTCA	TTTACATAAG	TAAACTCTGC	300
TTTAAAATAA	TTTAACTCAT	TGTCTGCnAA	ACGTTTTCTT	TTATAAAAAG	AnTTTAAACG	360
CGTTAATGAA	GCTGTGAGTG	TTCCTTCGAA	CACGAGnnGA			400

- (2) INFORMATION FOR SEQ ID NO: 3785:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3785:

TACI	GGAATG	ACATCAGATA	CATGTGCACC	ACCAATCCAT	TTCTTTTCAC	CATTGATAAC	60
CCAA	GTATCG	CCTTGnCGTT	CAGCGACTGT	TTCAAGACCT	CCCGCAACGT	CCGAACCGTG	120
TTCT	GGTTCA	GTTAAAGCAA	AGCATGTACG	CAGTTCATGT	GETGTAATT '	TAGGTACATA	180
TTTC	GCAATT	TGTTCTTTGC	TACCTCCGAA	ATAGAAAGTG	TTATGCCCTA	AACCTTGGTG	240
AACA	CCGAGT	AGGGTAGCTA	AGGAAATATC	AAATCGCGCG	AGTAGGTAAG	ACATGAAAAA	300
CTGA	AATAGT	TGACTAGGCA	TTTTGGCGTT	TGGACGATCC	TTGTAAAGTA	ATGGATTGTT	360
AAAA	TTAATT	AATTCTCCCA	GTCTTTAAAT	AGTCCTCGGG			400

- (2) INFORMATION FOR SEQ ID NO: 3786:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

# (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3786:	
TCATTTGACG AATTTCATTG TTATTCAAAA TTCTATCTAA TCGTGCTTTT TCAACATTTA	60
ATATCTTACC TCGTAATGGT AAAATCGCCT GCGTTCTAGA GTCACGACCA GATTTTGTAG	120
ACCCCCGGC AGAGTCCCCT TCGACTAAGA AAATCTCACA TTCTTCAGGA CTTTTACTAG	180
AGCAATCGGC TAATTTACCT GGAAGCTTGC TACATCTAAC GCTGATTTAC GACGTGTTAC	240
TTCACGCGCT TTTTTCGCAG CAACACGTGC ACGGCCCGCC ATAATACCTT TTTCAACCAC	300
TGTACGTGCG ACTTGTGGGA TTTTCATATA AAAATCGTTC AAAGGCTCT GAGAATAATT	360
TATCTACAAC TTGACGCACT TCAGAATTAC CTAATTTTGT	400
(2) INFORMATION FOR SEQ ID NO: 3787:	

- 2) INTOMMITON FOR SEQ ID NO. 570
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3787:

TCTCTTCCCG	TTTCGCTCGC	CGCTACTAAG	GGAATCGAAn	TTTCTTTCTC	TTCCTCCGGG	60
TACTAAGATG	TTTCAGTTCT	CCGGGTGTGC	CTTCTGATAT	GCTATGTATT	CACATATCGA	120
TAACATGACA	TAACTCATGC	TGGGTTTCCC	CATTCGGAAA	TCTCTGGATC	AAAGCTTACT	180
TACAGCTCCC	CAAAGCATAT	CGTCGTTAGT	AACGTCCTTC	ATCGGCTTCT	AGTGCCAAGG	240
CATCCACCGT	GCGCCCTTAA	TAACTTAATC	TATGTTTCCA	CCATTTTTAT	AAGTCAAACG	300
TTAACATGAA	GTTACGTTCT	TTTATAAAAA	GATTTAAACG	CGTTATTAAT	CTTGTGAGTG	360
TTCTTTCGGA	CACTAGCGAT	TATTTCTnAT	GATnCAAGCT			400

- (2) INFORMATION FOR SEQ ID NO: 3788:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3788:

ATTCTCTGCT	TTCATCTCAT	TTGGTGACTA	ATACCCTGAT	TTTGTCCAAG	TAAATGCTTC	60
ATAAAGTATT	CTTGACCTTT	TGCAGAACTT	GAAATTAAGT	TTGAACGCCA	TATATAATGA	120

TTTTGGATGA	TTCTTTTTCA	AATCAGGATC	TCTATTGCAA	ATTGTGTTTG	TnTTGATTTC	180
ACTTCATCAA	TTGCACGTTG	CAAAATCGCT	TCATTTGAAT	CTATACCTTC	ATCTTTAGCT	240
TCTTCTGCAA	ACAACAAACT	ATTTTTATTA	AATTGTGGAT	ATGATGGTAA	CCAACCAAGT	030
CTAGCTGCTA	AnACATTATA	ATCAGCTGGA	TGTTGATGCT	TTAACTCCTC	TGTTTTAGCT	360
AATGGAGATT	TTAAACGATC	TACATTTGAC	TCTTCATAAT			400

#### (2) INFORMATION FOR SEQ ID NO: 3789:

- (i) SEOUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3789:

CGGTTTCTTA ATTATGAACG CAACTATGAA TGGCTTATTA ACTATCACGG GCACATTGGC 60

AAAAGATCAG CTTGCACAAA ATGGACAAGG CATGGTGCTC GGTATACAAA CGGTTGAAAC 120

CGGTGTTTTT GGCGGGATTA TCACAGGTAT TATGACCGCA ATACTTCACA ACAAATATCA 180

CAAAGTGGTA TTACCACCGT ATTTAGGTTT CTTTGGTGGC TCTAGATTTG TCCCTATTGT 240

CACAGCATTT GCCGCAATCT TTTTAGGTGT ATTGATGTTT TCATTTGGC CAAGCATACA 300

nGCCGGCATT TATCATGTTG GTGGGATTTG TAACGAAAAC AGGTGCCATC GGTACTnTTG 360

TTTATGGGTT CATCTTTAGG ATTGTTAGGT CCACTCGGTT 400

#### (2) INFORMATION FOR SEQ ID NO: 3790:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 716 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3790:

ATAATGGACT GTGCCGNGTA ATAATATNGN TCTCTAAAAG TTGTATTTA AAAATAGTTC 60

TTTAAATTAT ATACCCACCA CATTTGGTGA kGAACCTAAA AAAAAGCACT TCCCAAAAAT 120

GGAAAGTGCA AGTAGTGAGC CATAGAGGAT TCGAACCTCT GACCCTCTGA TTAAAAGTCA 180

GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC TAGCTGGATT CGAACCAACG 240

AGTGACGGAT CAAANGTCG TTGCCTTACC GCTTGGCTAT AGCCAATATA TAGATGGTGG 300

AGGGGGGCAG ATTCGAACTG CCGAACCCGA AGAGGCGGATT TACAGTCCGC CGCGTTTACC 360

ACTTCGCTAC CCCTCCAGCT TATTCATATA ATTTAATAAT CAAAATGGTG GAGAATGACG	420						
GGTTCGAACC GCCGACCCTC TGCTTGTAAG GCAGATGCTC TCCAGCTGA GCTAATTCTC	480						
CAAAATAATG ACTCCTACGG GACTCGAACC CGTGTTACCG CCGTGAAAGG GCGTGnTCTT	540						
AACCGTTGAC CAAGGAGCCA TGGCTCaCcA GGTAGGACTC GAACCTACGA CCGATCGGTT	600						
TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGGATTA ATATTATGCC TGGCAACGTT	660						
CTACTCTAGC GGAACTAAAG TInGAACTNA CCATCGACGC TAAAGGAGCT TAACTT	716						
(2) INFORMATION FOR SEC ID NO. 3791.							

# (2) INFORMATION FOR SEQ ID NO: 3791:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3791:

TGTCATGACG	TTATTTGAAG	ATATCGCGCA	AGTCTTTTA	AAGGTAACAC	TATCATTTAT	60
GCAATACGGC	GCATTACCAG	AGTTGCATGG	TCAAAATATA	TTGTTGTCAT	TTGAAGATGG	120
ACGTGTACAA	AAATGCGTGT	TACGTGATCA	TGATACTGTC	AGAATTTATA	AACCATGGCT	180
AACAGCACAT	CAGCTTTCAT	TGCCGAAGTA	TGTCGTCAGA	GAAGATACAC	CTAATACGCT	240
AATTAATGAG	GATTTGGAAA	CATTCTTTGC	nTGATTTTCA	AACATTAGCT	GTGATCGGTA	300
AATCTATATG	CCATTATTGA	TGCAATTCCA	AGATTTATTT	GGTGT#AGT	GnAGCATGAA	360
CTTATGTCGT	TGTTAAAACA	AATTTTGAAA	AAAGGAAGTG			400

### (2) INFORMATION FOR SEQ ID NO: 3792:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 425 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3792:

TTTTCACACA	ATACATGGAC	ACCATGGTTC	AATGCTTCTA	TAGAAAGATC	AGCATGGAAT	60
TTATTAGGTG	TACAAATGAC	CACCGCATCA	ACAAGTTTAA	ACAGCTCGCT	AGGTGTCTCA	210
ACTGCATGAG	GTATATTAAA	GCGCTTCGCA	ACATCAATCA	TCTGCACTGT	ATTAATATCT	180
TGTACTGCAA	CTAATGAGAC	TGTGTCTTTG	AGTTTCAGCA	ATGCTGGAAT	ATGACGGTCT	240
TGTGCAATAC	CACCAACACC	TATCACACCA	ACTTTTAATT	TTGTCATGAT	GTGCCTCCTT	300
ACCGTATGAT	GTtATTCAAA	GTAAATTGCT	TTGCCTGATT	TKGCAGACTG	ATaAATyGCT	360

TCAAGrrTTT TTGtaACTAC CATkGCTTGT TCCGGGTTCA CAACTGGnTC AGTATCCAnT	420					
TACCA	425					
(2) INFORMATION FOR SEQ ID NO: 3793:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid						
(C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3793:						
GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC TACTGGATT CGAACCAACG	60					
AGTGACGGAG nAAAGGTCCG TTGCCTTACC GCTTGGCTAT AGCCCAATAT ATAGATGGTG	120					
GAGGGGGCA GATTCGAACT GCCGAACCCG AAGGAGCGGA TTTACAGTCC GCCGCGTTTA	180					
GCCACTTCGC TACCCCTCCA GCTTATTCAT ATAATTTAAT AATCAAAATG GTGGAGAATG	240					
ACGGGTTCGA ACCGCCGACC CTCTGCTTGT AAGGCAGATG CTCTCCCAGC TGAGCTAATT	300					
CTCCAAAATA ATGACTCCTA CGGGACTCGA ACCCGTGTTA CCGCCGTGAA AGGGCGGTGT	360					
CTTAACCGCT TTGACCAAGG AGCCATGGCT CCACAGGTAG	400					
(2) INFORMATION FOR SEQ ID NO: 3794:						
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3794:						
ATCAGCAGGG TTGAAAGTAC CTGCTGCAAC AGTAATACCA TTATTAGTTC CAGCAATACC	60					
TGCTACAGTT GCTGCAGATG CTTCTTTCAC CCATGGACTC GTATTATTGC GACGTGTAAA	120					
TGTnTCACAA CGTTACCATT ACGTTTAATA ACTAATTTAT CAGCGTATGT CGTTACGTTA	180					
CCGGCATGTG TATTCACTGT TTGGTTTGCT CCAGGTGCAA TTGMATCGC TCCTGCCGCT	240					
GTTTCAGTCA CAGTTGGTTT CGCTGGTTGC ACATCTTTTA CTACAAATTT CGCTGGTAAA	300					
GATGTTGCAA AAGTATGTCC GTTATAGATG ACGTCCATAT TTTGCGTTAA CGACTTTAGC	360					
CACATTCGGT TTATTCATAG CGGACCAGTT TGCGTCCATT	400					
(2) INFORMATION FOR SEQ ID NO: 3795:						
(i) SEQUENCE CHARACTERISTICS:						

(A) LENGTH: 400 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 395:

GCGCCGAAAA	TGTACCGGGG	CTAAACATAT	TACCGAAGCT	GTGGATTGTC	CTTTGGACAA	60
TGGTAGGAGA	GCGTTCTAAG	GGCGTTGAAG	CATGATCGTA	AGGACATGTG	GAGCGCTTAG	120
AAGTGAGAAT	GCCGGTGTGA	GTAGCGAAAG	ACGGGTGAGA	ATCCCGTCCA	CCGATTGACT	180
AAGGTTTCCA	GAGGAAGGCT	CGTCCGCTCT	GGGTTAGTCG	GGTCCTAAGC	TGAGGCCGAC	240
AGGCGTAGGC	GATGGATAAC	AGGTTGATAT	TCCTGTACCA	CCTATAATCG	TTTAATCGAT	300
GGGGGGACGC	AGTAGGATAG	GCGAACGTGC	CATTTGATTG	CACGTCTAAA	GCAGTAAAGC	360
TGAGTATTAG	GCnAATCCGG	TACTCGTTnA	AGGCTGAACT			400

### (2) INFORMATION FOR SEQ ID NO: 3796:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3796:

GCACATGTTG	CCATgCTTGA	GCTAAATTAC	CTTGCATCAT	TGCTAGCTTT	TCTTGTATTA	60
ACTGATATTT	ACTAATTGGT	TTGCCGAATT	GCTTACGCTC	AGTGACATAA	TCTAATGTGG	120
CACGTAAAGC	GCCACCATAC	CACCTGTAGC	CATATAAGCA	ACGsCTGCTC	TCGTTGAAT <b>A</b>	810
AAGAATTTTG	GCAATATCTT	TAAAGCTTGT	TATGTTTTGT	AAGCGATCCG	CTTCATCTAC	240
TTTGACATTA	GTTAATTTAA	TTAGGGCGTT	AGGAACAATG	CGAAGTGCGA	TTTTATTATC	300
AATGACTTCA	ATATCGACGC	CATCTTGTTC	TGGTCTGACT	ACAAAGCAAT	GGGGTTTGCC	360
AGTTTCnGTT	ATTTACTGCG	AATACTGGGG	GGGnGnGGTT			400

# (2) INFORMATION FOR SEQ ID NO: 3797:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3797:

TTGATGCAGA AGAGGAAAGT GGAATTCCAT GTGTAGCGGT GAAATGCGCA GAGATATGGA 60

GGAACACCAG	TGGCGAAGGC	GACTTTCTGG	TCTGTAACTG	ACGCTGATGT	GCGAAACGTG	120
GGGATCAAAC	AGGATTAGAT	ACCCTGGTAG	TCCACGCCGT	AACGATGAG	TGCTAAGTGT	180
TAGGGGGTTT	CCGCCCCTTA	GTGCTGCAGC	TAACGCATTA	AGCACTCCGC	CTGGGGAGTA	240
CGACCGCAAG	TTGAAACTCA	AAGGAATTGA	CGGGGACCCG	CACAACGGTG	GGAGCATGTG	300
GTTTAATTCG	AAGCAACGnA	GAGAACCTTA	CCAATCTTTG	ACATCCTTTT	GACACTCTAG	360
GAGATAGAGC	CTTCCCTTCG	GGGGGACnAA	GTGACAGTTG			400

### (2) INFORMATION FOR SEQ ID NO: 3798:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3798:

CACAAAACAA GCCA	AGCAAA ACAAACGCAT	ATAACGTAAC	AACACATGGA	AACGGCCAAG	60
TATCATATGG CGCT	CGCCCA ACACAAAACA	AGCCAAGCAA	AACAAATGCA	TACAACGTAA	120
CAACACATGC AAAC	GGTCAA GTGTCATACG	GAGCTCGCCC	GACATACAAG	AAGCCAAGTA	180
AAACAAATGC ATAC	AATGTA ACAACACATG	CAGATGGTAC	TGCGACATAT	GGGCCTAGAG	240
TAACAAATA AGTT	TGTAAC TCTATCCAAA	GACATACAGT	CAATACAAAA	CATTACGTAT	300
CTTTACAACA GTAA	TCATGG CATTCTATGG	ATGCTTCTAA	CTGAATTAA	AGCATCGGAA	360
CAATCGGGAn GCAT	ATTTCT AAAATTATTT	ATTCCATTAT			400

### (2) INFORMATION FOR SEQ ID NO: 3799:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3799:

60	GTGTTAAGAG	AAAATGGATG	AGATCAGCCG	CTAGGTGATA	ATGGGGGAAG	CTTCGCCGAT
120	CCATTACAGT	GTGTACGACA	TAATGGCATT	TGCTTATTTT	TTTGGCGGTA	CGTTACTTGG
180	TCAAGTGCGT	TGTTGATGCA	TTGGTGGTGT	CAGGGACTAT	GAGGTTATTG	TTGTACTTGT
240	CTGCAAAGTT	ATTAGGAAGA	GTGGAAAGGT	CTGAAGGATC	AGAGGCGCCA	TTGCGAGTGC
300	CGATATTAGG	GTTACAGCTT	AATTGGCGGT	TGGGGCCATT	AGGTCTCTTG	CAGTCAGCGC

TTTTAGTGCG TTACTGATGA GTATTGCCGT TATTACTTTT ATTGTCTGTn TTTTCGGTGC	360
CATTAAAATG ATTGAAACGA CACATATGGC CAAAnnCACA	400
(2) INFORMATION FOR SEQ ID NO: 3800:	400
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3800:	
GGAATCTATT ATATTAGATG TAAAAAATTT CGCGCAAAAT GTGTTAGGTA AAGGTGTCAT	60
TGTCGTCAAT GATGTGCCTG GCTTTGTCGC AAATAGAGTCGGCACGCAAA CAATGAATGA	120
TATTATGTAT CGCGCCGAGC AACACAAGAT AAGCATTGTA GATGTGGATG CTTTAACTGG	180
GCAAGCGATT GGTCGTCCTA AAACAGGTAC ATATGCGCTA TCTGACCTAG TCGGTTTAGA	240
TATTGCAGTG TCTGTAAATT AAAGGCATGC AACAAGTACC TGAAGAAACA CCTTATTTTC	080
ATGATGTCAA AATGTAAATA CGTTGTTTGA CCATGGGCGC ACTCGGACGT TAAnnCGnAA	360
ACCAAGGGTT TTTACCAAAA AGGGTTAAAG GGnAACTTAA	400
(2) INFORMATION FOR SEQ ID NO: 3801:	
(i) SEQUENCE CHARACTERISTICS:	
<ul><li>(A) LENGTH: 400 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	
<ul><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3801:	
TGCAGGCGTT TCTGGTCTGC ATAGTTTACG CATACGACCT GCGCGATCCT TATCTGGTAA	60
TAAATTGTAA AACGATAGTT CCCGTTGTTC CTAATAGTTG TATTCTATCT GACGCATAAT	120
GTGAAAAATA ACCTGCCATC TCTAAGCCCG GTCTTGATAT ATCAGCATTT TTAATTGGCT	180
TCGATAGTCC TTCTTCACCA GCGATTAAAT CTAACTTTAA TGTTTCAACT AGTTTTTCTG	240
TCGTTAACAT GGGTTCACCT CAATTGTATT TACCCTACTC TACATCTCT TCTTATCATA	300
TCAAAAATAT AACACCAATC TACATTGAAA AGCTAAAnTA AATATTAATG TTCATTATTG	360
TTATNATTTT ACAAGTCAAT ATCATCATAA TTTATTGCTG	400
(2) INFORMATION FOR SEO ID NO: 3802:	400
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid	

(B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3802:

TTTCACTTTT	GAACCATGCG	GTTCAAAATG	ATTATCCGGT	ATTAGCTCCG	GTTTCCCGAA	60
GTTATCCCAG	TCTTATAGGT	AGGTTATCCA	CGTGTTACTC	ACCCGTCCGC	CGCTAACATC	120
AGAG <b>AA</b> GCAA	GCTTCTCGTC	CGTTCGCTCG	ACTTGCATGT	ATTAGGCACG	CCGCCAGCGT	180
TCATCC <b>TG</b> AG	CCAGGATCAA	ACTCTCCATA	AAAATTATGA	TGTTTGATTA	GCTCATAAAT	240
ACTAAATAAT	GTTTGTAACT	TATAGTTACG	TTTTTTGGAA	TTAACGTTGA	CATATTGTCA	300
TTCAGTTTTC	AATGTTCATT	TTTCTTACCG	ACAAGAATTA	ATTATACATT	TTATTAACAT	360
TTAAGTCAAT	AACTTTnTTT	ATCCTGTCCA	TTTnATTTTT			400

### (2) INFORMATION FOR SEQ ID NO: 3803:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3803:

T	AGTCACCAG	ACATATGAAT	GTAATTTATA	CATTCAAAA	TAGATAGTAA	GTAAAAGTGA	60
T	TTTGCTTCG	CAAAACATTT	ATTTTGATTA	AGTCTTCGAT	CGATTAGTAT	TCGTCAGCTC	120
C.	ACATGTCAC	CATGCTTCCA	CCTCGAACCT	ATTAACCTCA	TCATCTTTGA	GGGATCTTAT	180
A	ACCGAAGTT	GGGAAATCTC	ATCTTGAGGG	GGGCTTCATG	CTTAGATGCT	TTCAGCACTT	240
Α	TCCCGTCCA	CACATAGCTA	CCCAGCTATG	CCGTTGGCAC	GACAACTGGI	ACACCAGAGG	300
Τ.	ATGTCCATC	CCGGTCCTCT	CGTACTAAGG	ACAGCTCCTn	TCAAATTTCC	TACGnCCAnG	360
Α	CGGATAGGG	ACCGAACTGT	TTTCACGACG	GTnCTGAACC			400

#### (2) INFORMATION FOR SEQ ID NO: 3804:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 457 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3804:

AGTnCACTCA CnccAGATGT TTAAGTCCTG TGCGTCTGCC AGTTCCGCCA CCCCGGCACT

60

ATAAAAATGG AGCAGAA	AGAC GGGATTCGAA CO	CCGCGACCC CAACCTTGGC	AAGGTTGTAt 120
TCTACCGCTG AACTACT	TCT GCATATGCGG G	TGAAGGGAG TCGAACCCCC	ACGCCGTAAG 180
TTAGWATCCT AAGTCTA	AGTG CGTCTGCCAA T	TCCGCCACACCCGCAAATG (	STGAGCCATA 240
GAGGATTCGA ACCTCTG	SACC CTCTGATTAA AA	AGTCAGATG CTCTACCAAC	TGAGCTAATG 300
GCTCTTCCAT GGTGCCG	GCC AGAGGACTTG A	ACCCCCAAC CTACTGATTA	CAAGTCAGTT 360
GCTCTtACCA ATTGaGC	CTAG GCCGGCAATA TO	GTaAGAATA AATGGTGGAG	AATGACGGGT 240
TTCGAAACCG CCGnACC	CCTC TGGCTTGTTA AC	GGGCAG	457

#### (2) INFORMATION FOR SEQ ID NO: 3805:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3805:

ACTTTTTATT	TTGACGTTTT	AGACATAAAA	AAAGCTCACG	GTCTCAACTT	GCCTGGCAAC	60
GTTCTACTCT	AGCGGAACGT	AGTTGGCTAC	CATCGTCGCT	AAAGACCTTT	CTTGACTTGT	120
GACAATCGCT	TGCTTCTTTC	CTCTCCTTCG	GCTCTCGCTT	ACTCATTTAG	CTCTACTAAA	180
CTCGTTGCGC	TCTTTTCTCG	TTTCGTCAGA	TTCAAACGTT	TTCACTTCGC	CAAGCCATTT	240
TTCTTTGTGT	TTACTTTTTA	TnTTGACGTT	TTAGGCATAA	AAAAAAGAGA	CCTTGCGGTC	300
TCAATGCGGC	TCATCGCATC	CATnTTTTGC	CGGGCAACGT	TCACTCTTA	GCGGAACGTA	360
AGTTGGCTAC	CATCGTCGCT	AAAGACCTTT	TTGGACTGTG			400

#### (2) INFORMATION FOR SEQ ID NO: 3806:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3806:

GTTATGAAAG TCGCGCTTAA AATGCGTTAA TGTGACAAGG ATAATTCAAC ATCGTTTCAT 60

TTTACTGAGT CATTGCACTT ATCATACACA TTATATTTAG CATGAGTTAT ATTACTAAAA 120

CAATATTACA TGCGCATTAG TACTAGAATG GAGTTTTTC AATGCGACTT ATTTTAATCG 180

TCATTGGCTT AATATTACA GCGCTTGGTA TTGCAGGTGC CGTATTACCT TTACTGCCAA 240

CGACCCCTTT TTTACTCGTA GCAGTTTTTT GCTTTGCTCG AAGTTCAGAT CGCTTTTACA 300

ATTGGGCnnA TTAATCAAM AATTTATAAA GAATATGTAG AAAACCTTTn TTTGACATCG	360
AGGCTACACG CTACAACAGA AAATTGAAAA TTTAATTAGC	400
(2) INFORMATION FOR SEQ ID NO: 3807:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 388 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3807:	
AGGAGAACAT GCTGTTACAT TTGGAGAGCC TGCTATTGCA GTGACCGTTT AACGCAGGTA	60
AAATCAAAGT TTTAATAGAA GCCTTAGAGA GCGGGAACA TTCGTCTATT AAAAGCGATG	120
TTTACGATGG TATGTTATAT GATGCGCCTG ACCATCTTAA GTCTTTGGTG AACCGTTTTG	180
TAGAATTAAA TAATATTACA GAGCCGCTAG CAGTGAACGA TCCAAACGAA TTTACCACCA	240
TCACGTGGAT TAGGATCGAG TGCCAGCTGT CGCGGTTGCT TTTGTTCGTG CAAGTTATGG	300
ATTTTTTAGG GNAAATCATT AACGAAAGNA AGAACTCATT GGAAAAGGCT NATTGGGCCA	360
GAAGCAAATT GCCACATGGT AAAACCAA	388
(2) INFORMATION FOR SEQ ID NO: 3808:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 447 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3808:	
ATGCGCAGAG TATATGGAGG AACACCAGTG TCGAAGCGCA CTTTCTGGTC TGTAACTGAC	60
GCTGATGTGC GAAAGGTGKG GGATCAAACA GGATTAGATA CCCTGGTAGT CCACGCCGTA	120
AACGATGAGT GCTAAGTGTT AGGGGGTTTC CGCCCCTTAG TGCTGCAGCT AACGCATTAA	180
GCACTCCGCC TGGGGAGTAC GACCGCAAGT TGAAAACTCA AAGGTATTGA CGGGGACCCG	240
CACAAGCGTG GGAGCATGTG GtTTAATTCG AaGCAACGnnGAGGAACCTT ACCAAATCTT	300
GACATCCTTT GACAACTCTA GAGATAGAGC CTTCCCCTTC nGGGAACAAA TGACAGGTGG	360
TGCATGGTTG TCGTCAGCTC GTGTCGTGAG ATGTTGGGTT TAAnTCCCGC AACGAGCGCA	420

417

ACCCTTAAGC TTATTTGCCA TCATTAA

(2) INFORMATION FOR SEQ ID NO: 3809:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID ND: 3809:

C	CAACTGAGC	TACTGAACCA	TAATAAAAT	GTAATGACTG	GCGGTCTCGA	CGGGAATCGA	60
A	CCGCGATC	TCCTGCGTGA	CAGGCAGGCG	TGTTAACCGC	TACACTACGA	GACCTATAAA	120
A	TATTGCGGG	AGGCGGATTT	GAACCACCGA	CCTTCGGGTT	ATGAGCCCGA	CGAGCTACCG	180
AA	ACTGCTCCA	TCCCGCGATA	АТАААААТА	ATGGCGGAGG	AAGAGGGATT	CGAACCCCCG	240
CC	GCCCGTTA	AGGCCCTGTC	GGTTTTCAAG	ACCGATCCCT	TCAGCCGGAC	TTGGGTATTC	300
CI	CCATTATT	ATAGGTAAAT	CGCTATTAAT	TATAAAATTA	AATGGCGGTC	TCGACGGGAA	360
TO	CGAACCCGC	GATCTCCTGC	GTGACAGGCA	GGCGTGTTAA			400

- (2) INFORMATION FOR SEQ ID NO: 3810:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3810:

TGCTTGGTAA	AATCTATATT	TTACTTACTT	ATCTAGTTTT	CAATGTACAA	ATAATGGTGG	60
GCCTAAGTGG	ACTCGAACCA	CCGACCTCAC	GCTTATCAGG	CGTGCGCTCT	AACCAGCTGA	120
GCTATAGGCC	CATTTTTTG	AATGTTAAAT	AAACATTCAA	AACTGAATAC	AATATGTCAC	180
GTTATTCCGC	ATCTTCTGAA	GAAGATGTTC	CGAATATATC	CTTAGAAAGG	AGGTGATCCA	240
GCCGCACCTT	CCGATACGGC	TACCTTGTTA	CGACTTCACC	CCAATCATTT	GTCCCACCTT	300
CGACGGCTAG	CTCCTAAAAG	GTTACTCCAC	CGGCTTCGGG	TGTTACAAAC	TCTCGTGGTG	360
TGACGGGCGG	TGTGTACAAG	ACCCGGGAAC	GnATTCACCG			400

- (2) INFORMATION FOR SEQ ID NO: 3811:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 380 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3811:

GCTTCATGCT	TAGATGCTTT	CAGCACTTAT	CCCGTCCACA	CATAGCTACC	CAGCTATGCC	60
GTTGGCACGA	CAACTGGTAC	ACCAGAGGTA	TGTCCATCCC	GGTCCTCTCG	TACTAAGGAC	120
AGCTCCTCTC	AAATTTCCTA	CGCCCACGAC	GGATAGGGÆ	CGAACTGTCT	CACGACGTTC	180
TGAACCCAGC	TCGCGTACCG	CTTTAATGGG	CGAACAGCCC	AACCCTTGGG	ACCGACTACA	240
GCCCCAGGAT	GCGATGAGCC	GACATCGAGG	TGCCAAACCT	CCCCGTCGAT	GTGGAACTCT	300
TGGGGGAGAT	AAGCCTGTTA	Tncccggggt	AGCTTTTATC	CGTTGAGCGA	TGGnnCTTCC	360
ATGCGGGAAC	CACCGGGATT					380

### (2) INFORMATION FOR SEQ ID NO: 3812:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 386 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3812:

GAGGGATCTT	ATAACCGAAG	TTGGGAAATC	TCATCTTGAG	GGGGGCTTCA	TGCTTAGATG	60
CTTTCAGCAC	TTATCCCGTC	CACACATAGC	TACCCAGCTA	TGCCGTTAGC	ACGACAACTG	120
GTACACCAGA	GGTATGTCCA	TCCCGGTCCT	CTCGTACTAA	GGACAGCTCC	TCTCAAATTT	180
CCTACGCCCA	CGACGGATAG	GGACCGAACT	GTCTCACGAC	GTTCTGAACC	CAGCTCGCGT	240
ACCGCTTTAA	TGGGCGAACA	GCAACCCCTT	GGGACCGACT	ACAGCCCCAG	GATGCGATGA	300
GCCGACATCG	AGGTGCCAAA	CCTCCCCGTC	GnTGTGAACT	CTTGGGGGAG A	ATAAGCTGTT	360
ATCCCCGGGT	GAGnTTTnTC	CGTTGA				386

# (2) INFORMATION FOR SEQ ID NO: 3813:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3813:

GTTGGAGTTT	CTGGCTCACT	CGGCACTTCT	GGTGTCGGTG	GTGTT <b>G</b> GTGT	TTCCGGCTCA	60
CTTGGTACTT	CTGGTGTTGG	TGGCGTTGGT	GTTTCCGGCT	CACTTGGTAC	TTCTGGTGTC	120
GGTGGCGTTG	GTGGCACGAT	TGGAGGTGTT	GTATCTTCTT	CAATCGTTTG	TTGACCTTCA	180
TTTTGGCCGC	TTACTTTTGG	AAGTGTATCT	TCTTCAAAGT	CAACACTATT	GTGTCCACCG	240

AATTGATAAC	TTGGTTTATC	TTTATTTGTA	TCTTCTTCAA	TAATTTCAGT	GTGCTTATTG	300
AATCCGTGAA	TATGTGŒAC	nTGGTCGAAG	TCGATATCAA	TGATGTTACC	GCCATGTTCA	360
TACTTAGGTT	TGTCTTTTTC	TGTAnCTTCC	TCGAATGACT			400

- (2) INFORMATION FOR SEQ ID NO: 3814:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs(B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3814:

TAATTGGGCT ACCATCGTCG CTAAAGACC	T TTCTTGACTT GTGACAATCG CTTGCTTCTT	60
TCCTCTCCTT CGGCTCTCGC TTACTCATT	T AGCTCNÆTA AACTCGTTGC GCnCTTTTCT	120
CGTTTCGTCA GATTCAAACG TTTTCACTT	C GCCAAGCCAT TTTTCTTTGT GTTTACTTTT	180
TATTTTGACG TTTTAGGCAT AAAAAAAA	A GACCTTGCGG TCTCAATGCG GCTCATCGCA	240
TCCATTTTT GCCTGGCAAC GTTCTACTC	CT AGCGGAACGT AAGTTGGGCT ACCATCGTCG	300
CTAAAGACCT TTCTTGACTT GTGACAATC	G CTTGCTTCTT TCCTCTCCTT CGGCTCTCGC	360
TTACTCATTT AGCTCTACTA AACTCGGTG	C GCTCTTTCT	400

- (2) INFORMATION FOR SEQ ID NO: 3815:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3815:

TTCTTTCATA	TGATTTTTTA	GATTTTAGTA	AGTCAATAAA	GCCAATTTTC	TCCAACGATT	60
GAATGTAACG	TTGATTGATA	AATGTATTTC	TTGGTAAATC	ACCACCCGCT	AAAATTGT <b>G</b> G	120
CGATATTTAA	GGCAATATGA	TAATCATGGT	CGCTAATAAA	ATGACCCCGT	CTTTGCGCAT	180
CTAATTGTCC	TTGGATCAAT	GCTTTGAAGT	CTTCACCTAA	AGCGATATAT	TGATGTCTAG	240
GATTCGGAAT	ATAGTTTGTT	TCTGCTTCAT	ATTTCGCA <b>G</b>	TTTGAGCGCA	ACTTC <b>G</b> ACAC	300
GTTGTGCTGT	ATTGAAAATA	ATCGTATCTG	GTATCACGTA	AATnACCATA	ACGACGTGCC	360
TCCAAAGGCA	TTTGGTAnGA	GCCTTCGGCA	ATGCCGATAA			400

- (2) INFORMATION FOR SEQ ID NO: 3816:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3816:

CCAATATTTA	TATTAATGAA	AATAAGATGT	TATATTCATT	GTTAATTTAA	CACATAGTA	60
GAnAAACAGT	CATAAATTGA	TTTCTAATTG	AAATCATCTT	ATGACTGCTT	TTTATTATAC	120
TTTACATTTC	TCGTTTCGTC	AGATTCAAAC	GTTTTCACTT	CGCCAAGCCA	TCTTTCTTTG	180
TGTTTGCTTT	TATTTTGACG	TTTTAGACAT	AAAAAAAGAG	ACCTTGCGGT	CTCAATGCGG	240
CTCATCGCAT	CCACTTTTG	CCTGGCAACG	TTCTACTCTA	GCGGAAnTAA	GTCGGACTAC	300
CATCGACGCT	AAGGAGCTTA	ACTTCTGTGT	TCGGCATGGG	GAACAGGTGT	GACCTCCTTG	360
GCTATAGTCA	CCAGACATAT	GAATGTAAAT	TCATACATTC			400

### (2) INFORMATION FOR SEQ ID NO: 3817:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3817:

TGTTATTGTT CAAAATCATG ATCAAGATCA GTATACGGG GGGNATTATG AAGCGATG	CA 60
TACATTATCA CATAATAAGA TTAAATCACA ATTACGTATG ACCTTACCGG AGTACATC	GAT 120
ACCAGTTAAT TTCATGCATA TTGAGCAAAT TCCTATTACT ATTAATGGGA AATTAGAS	TAA 180
GAAGGCATTG CCTATCATGG ACTATGTCGA TACGGATGCC TATGTAGCAC CGAGTACA	AGA 240
TACCGAACAC TTGCTATGCC AAATTTTTGC AGATATTTTA CATGTGAATC AAGTAGGT	TAT 300
TCATGATAAT TTCTTTGAAT TAGGTGGCCA TTCATTAAAA GCAACGTTAT GGnTGGAA	ATC 360
GGATAGAGGC ATCTACTGGG GAAACGATTA CCAATTGGGG	400

# (2) INFORMATION FOR SEQ ID NO: 3818:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3818:

TCGGAATCTG	<b>QGAGGACCAT</b>	CTCCTAAGGC	TAAATACTCT	CTAGTGACCG	ATAGTGAACC	60
AGTACCGTGA	GGAGAAGGTG	AAAAGCACCC	CGGAAGGAAG	TTGAAATAGA	ACCTGAAACC	120
GTGTGCTTAC	AAGTAGTCAG	AGCCCGTTAA	TGGGTGATGG	CGTGCCTTTT	GTAGAATGAA	180
CCGGCGAGTT	ACGATTTGAT	GCAAGGTTAA	GCAGTAATG	TGGAGCCGTA	GCAnAACATG	240
TTCTGAATAG	GGCGTTTAGT	ATTTGGTCGT	AGCCGnAAAC	CAGGTGATCT	ACCCTTGGTC	300
CAGGTTGAAG	TTCAGGTAAC	ACTGGAATGG	AGGACCGAAC	CGACTTACGT	TTGAAAAGTG	360
AGCGGATGAA	CTGAAGGTAG	CGGAGAAATT	CCCAATCGAA			400

### (2) INFORMATION FOR SEQ ID NO: 3819:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQID NO: 3819:

CAACGAGAGA	CTCGGTGAAA	TCATAGTACC	TGTGAAGATG	CAGGTTACCC	GCGACAGGAC	60
GGAAAGACCC	CGTGGAGCTT	TACTGTAGCC	TGATATTGAA	ATTCGGCACA	GCTTGTACAG	120
GATAGGTAGG	AGCCTTTGAA	ACGTGAGCGC	TAnTTACGTG	GAGGCGCTGG	TGGGATACTA	180
CCCTAGCTGT	GTTGGCTTTC	TAACCCGCAC	CACTTATCGT	GGTGGGAGAC	AGTTTCAGGC	240
GGGCAGTTTG	ACTGGGGCGG	TCGCCTCCTA	AAAGGTAACG	GAGGCGCTCA	AAGGTTCCCT	300
CAGAATGGTT	GGAAATCATT	CATAGAGTGT	AAAGGCATAA	GGGACTTGAC	TGCGAGACCT	360
ACAAGTCGAG	CAGGTCCAAA	AACGGACnTA	GTGATnCGG			400

#### (2) INFORMATION FOR SEQ ID NO: 3820:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3820:

TGGCTCGAAC CACCGACCTC ACGCTTATCA GGCGTCGCTC TAACCAGCTG AGCTATAGGC 60

CATTAATTTG AATGAACAAA CATTCAAAAC TGAATACAAT ATGTCACGTT ATTCCGCATC 120

TTCTGAAGAA GATGTTCCGA ATATATCCTT AGAAAGGAGG TGATCCAGCC GCACCTTCE 180

ATACGGCTAC CTTGTTACGA CTTCACCCCA ATCATTTGTC CCACCTTCGA CGGCTAGCTC 240

CTAAAAGGTT ACTCCACCGG CTTCGGGTGT TACAAACTCT CGTGGTGTGA CGGGCGGTGT 300

GTACAAGACC CGGGAACGTT ATTCACCGTA GCATGCTGAT CTACGATTAC TAnCGATTCC	360					
AGCTTCATGT AGTCCAGTTT GCAGACTACA ATnCGAACTG	400					
(2) INFORMATION FOR SEQ ID NO: 3821:						
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3821:						
TATTAAATTA ATGGTGGGCC TAAnTGGACT CGAACCACCG ACCTCACGCT TATCAGGCGT	60					
GCGCTCTAAC CAGCTGAGCT ATAGGCCCAT TAATTTGAAT GAACAAACAT TCAAAACTGA	120					
ATACAATATG TCACGTTATT CCGCATCTTC TGAA@AGAT GTTCCGAATA TATCCTTAGA	180					
AAGGAGGTGA TCCAGCCGCA CCTTCCGATA CGGCTACCTT GTTACGACTT CACCCCAATC	240					
ATTTGTCCCA CCTTCGACGG CTAGCTCCTA AAAGGTTACT CCACCGGCTT CGGGTGTTAC	300					
AAACTCTCGT GGTGTGACGG GCGGTGTGTA CAAGACCCGG GAACGTATTC ACCGTAGCAT	360					
GCTGATCTAC GATTACTnAG CGnTTCCAGC TTCCATGnTA	400					
(2) INFORMATION FOR SEQ ID NO: 3822:						
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear						
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3822:						
TCTACCAACT GAGCTAATGG CTCTAATGGC TGGGCTAGCT GGATTCGAAC CAACGAGTGA	60					
CGGATAAAGT CCGTTGCCTT ACCGCTTGGC TATAGCCCAA TATATAGATG GnGGAGGGGG	120					
GCAGATTCGA ACTGCCGAAC CCGAAGAGCG GATTTACAGT CCGCCGCGTT TACCACTTCG	180					
CTACCCCTCC AGCTTATTCA TATAATTTAA TAATCAAAAT GGTGGGAGAA TGACGGGTTC	240					
GAACCGCCGA CCCTCTGCTT GTAAGGCAGA TGCTCTCCCA GCTGAGCTAA TTCTCCAAAA	300					
TAATGACTCC TACGGACTCG AACCCGTGTT ACCGCCGGA AAGGGCGGTG TCTTAACCGC	360					
TTGACCAAGG AGCCATGCTC CACAGTAGGA TTCGAACTAA	400					

- (2) INFORMATION FOR SEQ ID NO: 3823:
  - (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 391 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3823:

AACTTGCCTC	TTTAGGTACA	GCATGAGGCC	CTAGGAAAGT	ATGTTTCATG	TCTAAATCAT	60
ATTTCTCAGC	TAAACGATTA	GACACTTTCA	ATTGCTTCAG	TTCATTTTCT	CTATCTATC	120
CATAACCACT	CTTACTTTCA	ACTGCAnGCA	CGCCGTGTTT	AATCATAGTA	AGCAAATCAT	180
GCTCTGCTTT	TTTAAACAAG	TCATCTTCGG	ATGTTTCTCT	AGTAGCATTA	ACGGTAGATA	240
ATATGCCACC	ACCCATTTCT	AATATTTCAA	GGTAAGACTT	ACCTGGACGT	TTTAATGACA	300
TCTCATGTTC	TCGAGATCCA	CCAAATGTnA	AATGGGGTAT	GTGGCATCTA	CTAAGCCGGG	360
GGACACTAnC	TTTCCCACTA	GGCATCAATC	G			391

# (2) INFORMATION FOR SEQ ID NO: 3824:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3824:

ACATATCGAT AACATGA	CAT AACTCATGCT G	GGTTTCCCC	ATTCGGAAAT	CTCTGGATCA	. 60
AAGCTTACTT ACAGCTC	CCC AAAGCATATC G	TCTTAGTA A	ACGTCCTTCA	TCGGCTTCTA	120
GTGCCAAGGC ATCCACC	GTG CGCCCTTAAT A	ACTTAATCT	ATGTTTCCAT	CCTACAGGAA	180
ACGCGTTATT AATCTTG	TGG AGTGTTCTTT C	GAACACTGA	GCGATTATTT	CTTATGAATT	240
CAAGCTTATT TAAAACT	CTT TATTCACTCG G	TTTTGCTTG	GTAAAATCTA	TATTTTACT	300
ACnTATCTAG TTTTCAA	TGT ACAATTCTTT T	TAGTCAAGC	GCTCGCATAA	GCAATATCAC	360
TTTGAACCAA AAAAGAT	TGG AAGGTGAAAT A	AACATTCAA			400

# (2) INFORMATION FOR SEQ ID NO: 3825:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3825:

ATCGATAACA TGACATAACT CATGCTGGGT TTCCCCATTC GGAAATCTCT GGATCAAAGC 60

TTACTTACAG	CTCCCCAAAG	CATATCGTCG	TTAGTAACGT	CCTTCATCGG	CTTCTAGTGC	120
CAAGGCATCC	ACCGTGCGCC	CTTAATAACT	TAATCTATGT	TTCCATCCTA	CAGGAAACGC	180
GTTATTAATC	TTGTGAGTGT	TCTTTCGAAC	ACTAGCGATT	ATTTCTTATG	AATTCAAGCT	240
TATTTAAAAC	TCTTTATTCA	CTCGGTTTTG	CTTGŒAAAA	TCTATATnTT	ACTTACTTAT	300
CTAGTTTTCA	ATGTACAATT	TCTTTTTAGT	CAAGCGCTCG	CATAAGCAAT	ATCACTTTAA	360
CCAAAAAATA	TTTGAATGTn	AAATAAACAT	TCAAAACTGA			400

### (2) INFORMATION FOR SEQ ID NO: 3826:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3826:

TCACTCACCG	CAGATTTTTA	AGTCCTGTGC	GTCTGCCAGT	TCCGCCACCC	CGG <b>CA</b> TATA	60
AAAATGGAGC	AGAAGACGGG	ATTCGAACCC	GCGACCCCAA	CCTTGGCAAG	GTTGTATTCT	120
ACCGCTGAAC	TACTTCTGCA	TATGCGGGTG	AAGGGAGTCG	AACCCCCACG	CCGTAAGnCT	180
TAGATCCTAA	GTCTAGTGCG	TCTGCCAATT	CCGCCACACC	CGCAAATGGT	GAGCCATAGA	240
GGATTCGAAC	CTCTGACCCT	CTGATTAAAA	GTCAGATGCT	CTACCAACTG	AGCTAAT <b>G</b> GC	300
TCTTCCATGG	TGCCGGCCAG	AGGATTTGAA	CCCCCAACCT	TATTGGTTAC	AAGTCAGTTG	360
CTCTTACCAA	TTGAGCTAGG	nCGGCAATAT	GTTAAGATTA			400

# (2) INFORMATION FOR SEQ ID NO: 3827:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3827:

AGTGGTGGAA	TGGTCTTAAA	AGTTGGTGGT	CTAACTTTAG	AGAAGACCAA	AAGAAGAAAA	60
GTGATAAATA	CGCTAAAGAA	CAAGAAGAAA	CAGCTCGTAG	AAACAGAGAA	AATATAAAGA	120
AATGGTTTGG	AAATGCTTGG	GACGGCGTAA	AAACTAAAAC	TGGTGAAGCC	TTTAGTAAAA	180
TGGGCAGAAA	TGCTAATCAT	TTTGGCGGCG	AAATGAAAAA	AATGTGGAGT	GGAATCAAG	240
GAATTCCAAG	CAAATTAAGT	TCAAGTTGGA	GCTCAGCCAA	AAGTTCTGTA	GGATATCACA	300

CTAAGGCTAT AGCTAATTAG TACTGGTAAA ATGGTTTGGA AAAGCTTGGC CAATCTGTTA	360
AATTCGACTA CAGGAAGTAT TTACATTCAA ACTAGGCAAA	400
(2) INFORMATION FOR SEQ ID NO: 3828:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3828:	,
TCTCAGTTCC AGTGTGGCCG ATCACCCTCT CAGGTCGGCT ATGCATCGTT GCCTTGGTAA	60
GCCGTTACCT TACCAACTAG CTAATGCAGC GCGGATCCAT CTATAAGTGA CAGCAAGACC	120
GTCTTTCACT TTTGAACCAT GCGGTTCAAA ATATTATCCG GTATTAGCTA CGGTTTCCCG	180
AAGTTATCCC AGTCTTATAG GTAGGTTATC CAGTGTTAC TCACCCGTCC GCCGCTAACA	240
TCAGAGAAGC AAGCTTCTCG TCCGTTCGCT CGACTTGCAT GTATTAGGCA CGCCGCCAGC	300
GTTCATCCTG AGCCAGGATC AAACTCTCCA TAAAAATTAT GATGTTGAnT AGCTCATAAA	
TACTAAATAA TGTTGTAACT TATAGTACGT TTTTnGAAAT	400
(2) INFORMATION FOR SEQ ID NO: 3829:	400
· ·	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3829:	
CAAGCGCCAT GACATCATAA CTTTCTTGCA CAAGATATGT GAACGGCGGT GTTGATCCTA	60
GATTCGTGGC ATGCATACGC AAACCATTTT CTTCAATTAC TTCACCAAGG CGTTTAAAAT	120
CTTTGTCTTG AATCGCTGCT TTTGCTTCAG CTAAATCTTC ATCAATATGA TCTAACCAAT	180
ATTGATAAAA CCTTGATGTG TTTCGTGTCA ATGACATACC ATATCGACTA GGTACCTTTT	240
TAGAATGTTG ATTAATCACA ACAAATATCA TGGCAAGGTC ATCTTCAAAA TGATTCGATT	300
CAAGTGGGAr sGGCATATGA CGTCTCATCA CtATACCCTt TnTnCCCATT CTGCAAATnC	360

- (2) INFORMATION FOR SEQ ID NO: 3830:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid

ACCCATAAAT ACTACGGGAC GGAGAACCCG TACCATTTC

400

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3830:

GGGTACTAAG ATGTTTCAGT TCTCCGGGTG TGCCTTCTGA TATGCTATGT ATTCACATAT 60
CGATAACATG ACATAACTCA TGCTGGGTTT CCCCATTCGG AAATCTCTGG ATCAAAGCTT 120
ACTTACAGCT CCCCAAAGCA TATCNCGTTA GTAACGTCCT TCATCGGCTT CTAGGCCAA 180
GGATCCACCG TGCGCCCTTA ATAACTTAAT CTATGTTTCC ACCATTTTTA TAAGTCAAAC 240
GCTCACATAC GGCTTCGTTT TCATTATTTT AAATGCTCAT TTACATAAGT AAACTCTGCT 300
TTAAAAATAAT TTAACTCATT GTCTGCTAAA CGTTTTCTTT TATAAAAAAGA TTTAAACGCG 360
TTATTAATCT TGTGAGTGGT CCTTCGAACA CTAGCGATNA 400

#### (2) INFORMATION FOR SEQ ID NO: 3831:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3831:

AAATGCGGCT CATCGCATCC ATTTTTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG 60
TTGGCTACCA TCGTCGCTAA AGACCTTTCT TGACTTGTGA CAATCGCTTG CTTCTTTCCT 120
CTCCTTCGGC TCTCGCTTAC TCATTTAGCT CTACTAAACT CGTTGCGCTC TTTTCTCGTT 180
TCGTCAGATT CAAACGTTTT CACTTCGCCA AGCCATTTTT CTTTGTGTTT ACTTTTATT 240
TTGACGTTTT AGACATAAAA AAAAGAGACC TTGCGGTCTC AATGCGGCTC ATCGCATCCA 300
TTTTTTGCCT GGGCAACGTT CTACTCTAGC GGAACGTAAT TGGGCTACCA TCGACCTAA 360
GAACCTTTCT TGACTGTGAC AATCGCnTGC TTCTTTCCTC 400

#### (2) INFORMATION FOR SEQ ID NO: 3832:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3832:

AGCTTATTTT AAAACGTCGT TTATTCACTC TGGTTTTGCT TGGTAAAATC TATATTTTAC 60

Ί	TACTTATCT	AGTTTTCAAT	GTACAATTTC	TTTTTAGTCA	AGCGCTCGCA	TAAGCAATAT	120
C	CACTTTAACC	AAAAATATT	TGAATGTTAA	ATAAACATTC	AAAACTGAAT	ACAATATGTC	180
A	CATTATTCC	GCATCTTCTG	AAGAAGATGT	TCCGAATATA	TCCTTAGAAA	GGAGGTGATC	240
C	CAGCCGCACC	TTCCGATACG	GCTACCTTGT	TACGACTTCA	CCCCAATCAT	TTGTCCCACC	300
Ί	TCGACGGCT	AGCTCCTAAA	AGGTTACTCC	ACCGCTTCG	GGTGTTACAA	ACTCTCGTGG	360
Ί	GTGACGGGC	GGTGTGTACA	AGACCCGGGA	ACGTATTTCA			400

#### (2) INFORMATION FOR SEQ ID NO: 3833:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3833:

TTTTCTTCTG	GTAAAATATC	TGCAATAACA	GTATCTATGC	CTACTTGTTT	TGCAATGGCT	60
TGAGCAGTGT	TTTTATTATC	GCCAGTTAAC	ATGGCAACTT	CAATGCCCAT	ATETGCAAT	120
TGTATTATAG	CATCTTTGGC	ATGATCTTTG	ACAGTATCTG	CCACTGCnAT	GATACCAGTT	180
AATGAATAAT	TAACAGCAAT	GAGCATAGCA	GTTTTACCAT	CTCGTTCATA	ATGTGTTAAA	240
TCATCAGAAA	TATGCTTAGG	CAAGCTAATA	TCATTGTCAG	CCATTAATnT	ACGGGTTACC	300
AACCAATATA	TGGTGATGAT	CAATCCGTGG	CTTCAATACC	ATGGCCAGGT	ACCGCTTnAA	360
AGTTGTTGTC	TCAGTTAATA	TTAATTGCTT	TCCTTTTGCA			400

### (2) INFORMATION FOR SEQ ID NO: 3834:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3834:

nAATTATATG	GACCTTGCAG	GACTCGAACC	TGCGACCGAA	CGGTTATGAG	CCGTTAGCTC	60
TAACCAACTG	AGCTAAAGGT	CCTAAATATA	ATTTTACAAC	TAATAAATAG	TnGCGGnnGA	120
GGGGATCGAA	CCCCCGACCT	CACGGGTATG	AACCGTACGC	TCTAGCCAGC	TGAGCTACAC	180
CGCCTTATAT	AGTTTGTAAA	TAATATGGTG	GAGACTAGCG	GGATCGAACC	GCTGACCTCC	240
TGCGTGCAAA	GCAGGCGCTC	TCCCAGCTGA	GCTAAGCCCC	САТААТААТТ	ACAGATATC	300
GGGAAGACAG	GATTCGAACC	TGCGACCCCT	TGGTCCCAAA	CCAAGTGCTC	TACCAAGCTG	360

$\Lambda CCT\Lambda CTTCC$	$CCT\DeltaT\Delta\DeltaTT\Delta$	ACCCCCCCA	TAGGAGTCGI

400

- (2) INFORMATION FOR SEQ ID NO: 3835:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3835:

AATAACAATT GCGCC	CACTAA AACTCAAAAT	TTCCACCACC A	AACATCCAAA	TTATCAACAT	60
CGCAACATAA CCAAA	ATGTTA TAATAAATCT	ATTACACAAA G	GAGATAAATT	ACTTATGCAA	120
AGGCGGAGGA ATCAC	CATGTC TATTACTGAA	AAACAACGTC A	AGCAACAAGC	TGAATTACAT	180
AAAAAATTAT GGTC	GATTGC GAATGATTTA .	AGAGGGAACA 1	TGGATGCGAG	TGAATTCCGT	240
AATTACATTT TAGGO	CTTGAT TTTCTATCGC	TCTTATCTG A	AAAAGCCGA 2	ACAAGnATAT	300
GCAGATGCCT TGTCA	AGGTGA AGACATCACG	TATCnAGAAG (	CGTGGGCAGA	TGAAGAATAT	360
CGTGAAGACT TnAAA	AAGCAG GAATTAATTG	GTTCAAGTCG			400

- (2) INFORMATION FOR SEQ ID NO: 3836:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3836:

CTAATCGCAT	CTTTTTCAAT	CTAAGTGCGT	TTGTGACAAA	CTTACTGAAC	TAGTGCCAT	60
TGCAGCACCA	GCAACCCATG	GCGCAAGTAA	GCCCAATGCA	GCTATAGGGA	TACCGGCAAT	120
ATTATAGCCG	AATGCCCAAA	ATAGATTTTG	ACGAATATTA	CGAATGGTTG	CTTTACTTGC	180
ATAAATGGCT	TTAGGAATAA	GCATCAAGTC	GCCACCAAGA	ATAGTAATAT	CAGCTGCTTC	240
AATGGCAACT	TCTGTACCTG	TACCAATGGC	GATACCGATA	TCAGCTTTAA	CTAAATGCAG	300
GTGCATCATT	TACACCGTCA	CCAACCATCG	CAACCTTCTT	ACCTGTTGGC	TGTAGTTTCG	360
CAATTGTGGC	AGCTTTTTnC	TTCCGGnGAA	AATATCnGGC			400

- (2) INFORMATION FOR SEQ ID NO: 3837:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

# (D) TOPOLOGY: linear

(xi) S	SEQUENCE DES	SCRIPTION:	SEQ ID NO:	3837:		
AGAGCGGATT	TACAGTCCGC	CGCGTTTÆCC	ACTTCGCTAC	CCCTCCAGCT	TATTCATATA	60
ATTTAATAAT	CAAAATGGTG	GAGAATGACG	GGTTCGAACC	GCCGACCCTC	TGCTTGTAAG	120
GCAGATGCTC	TCCCAGCTGA	GCTAATTCTC	CAAAATAATG	ACTCCTACGG	GACTCGAACC	180
CGTGTTACCG	CCGTGAAAGG	GCGTGTCTTA	ACCGCTTGGA	CCAAGGAGCC	ATGCTCAAC	240
AGGTAGGACT	CGAACCTACG	ACCGATCGGT	TAACAGCCGA	TAGCTCTACC	ACTGAGCTAC	300
TGTGGGATTA	ATATTATGCC	TGGCAACGTT	CTACTCTAGC	GGGAAGTAAn	TCGGACTACC	360
ATCGACGCTA	AGGAGCTTAA	CTTCTGTGTT	CGGCATGGGG			400
(2) INFORM	ATION FOR SE	Q ID NO: 38	338:			

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3838:

AATCGCTTGC	TTCTTTCCTC	TCCTTCGGCT	CTCGCTTACT	CATTTAGCTC	TACTAAACTC	60
GTTGCGCTCT	TTTCTCGTTT	CGTCAGATTC	AAACGTTTTC	ACTTCGCCAA	GCCATTTTTC	120
TTTGTGTTTA	TTTTTATTTT	GACGTTTTAG	ACATAAAAAA	AAGAGACCTT	GCGGTCTCAA	180
ATGCGGCTCA	TCGCATCCAT	TTTTTGCCTG	GCAACGTTCT	ACTCTAGCGG	AAGTAATTGG	240
GCTACCATCG	ACGCTAAGAA	CCTTTCTTGA	CTTGTGACAA	TCGCTTGCTT	CTTTCCTCTT	300
CTTCGGCTCT	CGCTTACnCA	TTTAGCTCTA	CTAAACTCGT	TGCGCTCCTn	TCTCGTTTCG	360
TCAGATCCAA	ACGTTTTCAn	TCGnCCAAGC	CAATTTGCCT			400

# (2) INFORMATION FOR SEQ ID NO: 3839:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 416 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3839:

TTACGGCCGC CGTTTACTGG GGCTTCGATT CGTAGCTTCG CAGTAGAcrC GACTCCTCTT 60 AACCTTCCAG CACCGGGCAG GCGTCACCCT GATACATCAC CTTACGGTTT AGCAGAGACC 120

CTTCTCCCCA	TCACAGtTCA	GCCTTgAACG	<b>f</b> GTaCCGGAT	TTGnCTAATG	ATTCAG	416
TATTTTCTAT	CTAGAGGCTT	TTCTCGGCAG	TGTGAAATCA	ACGACTcGAg	GACACAATGT	360
TCGCTCGCTC	ACCTTAGAAT	TCTCATCTTG	ACTACCTGTG	TCGGTTTGCG	GTAGGGcACC	300
TAAAGAGCAC	CCCTTCTCCC	GAAGTTACGG	GGTCATTTTG	CCGAGTTCCT	TAACGAGAGT	240
TGTGTTTTTG	ATAAACAGTC	GCTTGGGCCT	ATTCACTGCG	GCTCTTCTGG	GCGTTAACCC	180

# (2) INFORMATION FOR SEQ ID NO: 3840:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3840:

AAGTTAGGCT ACCATCCTCG CTAAGAACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT 60

TCCTCTCCTT CGGCTCTCGC TTACTCATTT AGCTCTACTA AACTCGTTGC GCTCTTTCT 120

CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT TTTTCTTTGT ETTACTTTT 180

TATTTTGACG TTTTAGACAT AAAAAAAGAG ACCTCACGGT CTCAAACTTG CCTGGCAACG 240

TTCTACTCTA GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT 300

GACAATCGCT TGCTTCTTC CTCTCCTCG GCTCTCGCTT ACTCATTAG CTCTACTAAA 360

CTCGTTGGnG CTCTTTTCT CGGTTTnGTC AGAnTTCAAA 400

#### (2) INFORMATION FOR SEQ ID NO: 3841:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3841:

CGCGACTGAN GAATACAATG NCTACGATAA CTAAACCCAA TCAATCTTTT CATTCTATCA 60

ATTCCTTTCA AAATCTTCAC TATATATCAT TAATGTCTAC GTATGAATCT AGCTAGAACA 120

TTCCCTAGCG TTTGAATCAC TTGGACAATA ATGACTAATA CAATAACGGT AATAATAATG 180

ACCGTCGTAT CAAATCTTTG ATAACCATAC ACTAAAGCTA AGTCTCCTAT ACCACCACCG 240

CCAACAGCTC CTGCCATCGC CGTACTTCCA ATAAGTCCAA TAATCGCAGT GGTAATTGCT 300

AATACTAACG AACCTAAAGC TTCAGGAATT AAAAAATATC TAATGATTTG TAÆGGTGAA 360

CCCCCCATCC		TTCAATAATC	CCCTCCTCT
GUBUULATUG	しままましはしにほし	IICAAIAAIC	

400

- (2) INFORMATION FOR SEQ ID NO: 3842:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3842:

TCGCGATTCG CGTGTTCA	GA AATCATCGGC	ATCGCGTCAT	TCAATGATTC	ATATGCATCT	60
AAAGCAATAG AAGATAAT	GT GTCTGGCACA	TATACCCATG	CCAACGTATC	AGTAGACGTA	120
TGATGTTCTG CTACCGCA	AA AACAGTTGTC	TCTGGAATAT	ACACACCTGA	TTGTTTTAAT	180
CCTTGTCTGA CATTTGGA	CG ATTACATATC	ATCGCTAATA	ACTTAGCATT	AAAACCGCTT	240
GATGCGCCAC CACAAGCC	CC ACATTCAAGT	GATGCATGAT	GTGGATTATT	GTGAGAATGA	300
CTAGCATGAC CTGCTAAC	AC AACGAACGGC	GCAAATGCTT	CGGkTAAATC	CATCAATTTC	360
AACGCTgTAA CGCGAATC	AA TTGCTCTGCT	CAGTAAATCC			400

- (2) INFORMATION FOR SEQ ID NO: 3843:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3843:

GGCGCAGTGT	CACTCGACTA	GTGAGCTATT	ACGCACTCTT	TAAATGATGG	CTGCTTCTAA	60
GCCAACATCC	TAGTTGTCTG	GGCAACGCCA	CATCCTTTTC	CACTTAACATA	ATATTTTGGG	120
ACCTTAGCTG	GTGGTCTGGG	CTGTTTCCCn	GTCGAACACG	GACCTTATCA	CCCATGTTCT	180
GACTCCCAAG	TTAAATTAAT	TGGACATTCG	GAGTTTGTCT	GAATTCGGTA	ACCCGAGAGG _.	240
GGCCCCTCGT	CCAAACAGTG	CTCTACCTCC	AATAATCATC	ACTTGAGGCT	AGCCCTAAAG	300
CTATTTCGGA	GAGAACCAGC	TATTTCCAGG	TTCGATTGGG	AATTCTCCGC	TAACCTCAGT	360
TCATCCGnTC	ACTTTCAACG	TAAnTCGGGT	CGGGTCTCCA			400

- (2) INFORMATION FOR SEQ ID NO: 3844:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 469 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

(xi) :	SEQUENCE	DESCRIPTION:	SEQ	ΙD	NO:	3844:
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ACTTTTACTT	GCTGCGCCTC	CAGCCAAACC	TGCTGTTCCA	GCACCGATCG	CTGCACCTTT	60
TTTGCCATTA	TGATGATCTT	TAGACTATC	TTGAGACGCT	TTATCCTCAG	TCGAGTTATT	120
CGCCTTGCCA	GAATTACTTT	TGTTTTGAGC	GTCATTTGAA	TGTTTCTTAG	CTTTAGAAGC	180
AGCCATTGCA	CCAGCTGCAC	CTGCAACACC	TGCTGTTCCA	GCACCAATAG	CTGCTGCTTT	240
TTTACCATTA	TGATGTTCTT	TAGGTTCATC	TTGATCTTGT	TTTACAGAAT	ETTATCATG	300
TTCATTTTTT	GATGTTTCTG	ATTGGTTAGC	ACCTGTTGTA	AAATATGGTT	TAGGTTGCTG	360
AGATTGTTCA	GCTTCACTCT	TATCAGAAAC	TGTTGAATGC	TCAGTGTTAT	TTTCTGCATT	420
TTTAATAGTA	TCGTGTTTAn	CCATTGTCCT	CGAATGGGTT	CnGGATGTG		469

# (2) INFORMATION FOR SEQ ID NO: 3845:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3845:

GCTTCACTAC CAAGTGAAGA AGTTGCTGAA ACTCCTGCAG CACCTGCAnC AGTAACATTA	A 60
GAAGGCGACT TCCCAGAAAC AACTGAAAAA ATCCCTGCTA TGCGTAGAGC AATTGCGNAA	A 120
CATGGnTTTA ACTCTAAGCA TACTGCACCT CATGTAACAT TAATGGATGA AATTGATGT	г 180
CAAGCATTAT GGGATCACCG TAAGAAATT AAAGAAATCG CAGCTGAACA AGGTACTAAG	240
TTAACATTCT TACCTTATGT TGTTAAAGCA CTTGTTTCTG CATTGAAAAA ATACCCAGCA	A 300
CTTAACACTT CATTCAATGA AGAAGCTGGT GAAATCGTTC ATAAACATTA CTGGGAATAT	т 360
CGGTATTGCA GCAGACACTG ATAGAGGATT ATTAGTACCT	400

### (2) INFORMATION FOR SEQ ID NO: 3846:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3846:

TTAAGCTACC ATCCTCGCTA AGAACCTTTC TTGACTTGTG ACAATCGCTT GCTTCTTTCC 60

TCTCCTTCGG	CTCTCGCTTA	CTCATTTAGC	TCTACTAAAC	TCGTTGCGCT	CTTTTCTCGT	120
TTCGTCAGAT	TCAAACGTTT	TCACTTCGCC	AAGCCATTTT	TCTTTGTGTT	TACTTTTTAT	180
TTTGACGTTT	TAGACATAAA	AAAAGAGACC	TCACGGTCTC	AACTTGCCTG	GCAACGTTCT	240
ACTCTAGCGG	AACGTAAGTT	GGGCTACCAT	CGTCGCTAAA	GACCTTTCTT	GACTTGTGAC	300
AATCGCTTGC	TTCTTTCCTC	TCCTTCGGCT	CTCGCnTACT	CATTTAGCTC	TACTAAACTC	360
GTTGGCGCTC	TTTTCTCGGT	TCGTCAGATT	CAAACGGTTT			400

#### (2) INFORMATION FOR SEO ID NO: 3847:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3847:

ATCGTCAACT TATTATAGA CGATGTACAA GTTACATTAG ACAAAAAAGG TATTACGATG 60
GACGTTTCTC AAGATGCGAA AGATTGGTTA ATTGAAGAAG GCTATGATGA AGAATTAGGT 120
GCACGTCCAT TAAGACGTAT TGTTGAACAG CAAGTACGTG ACAAAATTACAGATTACTAT 180
TTAGATCATA CAGACGTTAA ACATGTGGAT ATAGATGTTG AGGGATAACG AATTAGTCGT 240
AAAAAGGTAAA TAACGACACT TTAACATATC GCGCATCAAA AATGAGCATC AGGTCGCCCT 300
TGCCTGTGGC TCATTTTTT GAATTATTC CCTGGGAAAA TGATTCGCTG TGTGCTGTTC 360
TGTTnCCACA ACAATCACGA TTGAATGTGC ACATGTGACC 400

#### (2) INFORMATION FOR SEQ ID NO: 3848:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3848:

TTTAAAACTC TTTATTCACT CGGTTTTGCT TGGTAAAATC TATATTTTAC TTACTTATCT 60

AGTTTTCAAT GTACAAATAA TGGTGGGCCT AAGTGGACTC GAACCACCGA CCTCACGCTT 120

ATCAGGCGTG CGCTCTAACC AGCTGACTA TAGGCCCATT TTTTTGAATG TTAAATAAAC 180

ATTCAAAACT GAATACAATA TGTCACGTTA TTCCGCATCT TCTGAAGAAG ATGTTCCGAA 240

TATATCCTTA GAAAGGAGGT GATCCAGCCG CACCTTTCCG ATACGGCTAC CTTGGTnACG 300

ACTTCACCCC AAATCATTTG TCCCACCTTC GACGGCTAGC TCCTAAAAGG TACTCCACC 360

GGCTTCGGGn	GTTACAAACT	CTCGTGGGTG	TGACnGGCGG
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400

- (2) INFORMATION FOR SEQ ID NO: 3849:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3849:

GTCTCAACTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGCTA CC	ATCGTCGC 60
TAAAGACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT CCTCTCCTTC GG	CTCTCGCT 120
TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCAG AT	TCAAACGT 180
TTTCACTTCG CCAAGCCATT TTTCTTTGTG TTTACTTTTT ATTTTGACGT TT	TAGGCATA 240
AAAAAAAAGAG ACCTTGCGGT CTCAATGCGG CTCATCGCAT CCATTTTTTG CC	TGGCAACG 300
TTCTACTCTA GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTT	rgacttgt 360
GACAATCGCT TGCTTCTTTC CTnTCCTTCG GCTCTCGCTT	400

- (2) INFORMATION FOR SEQ ID NO: 3850:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 463 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3850:

GTCTACTAAT GTTACAACCA C	CACCTGATTa	ATTGCTTTTT	TAGCAGTAAT	TGCCACATCT	60
GTGTGACGAT AATGATATGC G	SACAGTTAAT A	AATTTGTGAT	TTTTATT&C (	CGCTTCAATC	120
ATGCGATCAC ACTCTTCCGT C	GTCATCGCC	ATTGGCTTTT	CACACAATAC	ATGGACACCA	180
TGGTTCAATG CTTCTATAGA A	AAGATCAGCA	TGGAATTTAT	TAGGTGTACA	AATGACCACC	240
GCATCAACAA GTTTAAACAG C	CTCGCTAGGT (	GTCTCAACTG	CATGAGGTAT	ATTAAAGCGC	300
TTCGCAACAT CAATCATCTG C	CACTGTATTA A	ATATCTTGTA	CTGCAACTAA	TGAGACTGTG	360
TCTTTGAGTT TCAGCAATGC T	GGAATATGA (	CGGTCTTGTG	CAATACCACC	AACAACTATG	420
CACACCAACT TTTAAnTTTG T	nCATGATGT (	GCCnGCTTnA	CCG		463

- (2) INFORMATION FOR SEQ ID NO: 3851:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 628 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3851:

TATGCTCTAA	TGCTGGGCTT	AGTŒATTCG	ACCAACGAGT	GACGnAGTCA	AAGTCnGTTG	60
CTTTACGCTT	GGCTATAGCC	CCAATATATA	GATGTTGGAG	GGGGCAGATT	CGAACTGCCG	120
AACCCGAAGG	AGCGGATTTA	CAGTCCGCcG	CGTTTAGCCA	CTTCGCTACC	CCTCCAGCTT	180
ATTCATATAA	TTTAATAATC	AAAATGGTGG	AGAATGACGG	GTTCGAACCG	CCGACCCTCT	240
GCTTGTAAGG	CAGATGCTCT	CCCAGCTGAG	CTAATTCTCC	AAAATAATGA	CTCCTACGGG	300
ACTCGAACCC	GTGTTACCGC	CGTGAAAGGG	CGtGTcTTAA	CCGCTTGACC	AAGGAGCCAT	360
GGCTCaCAGG	TAGGACTCGA	ACCTACGACC	GATCGGTTAA	CAGCCGATAG	CTCTACCACT	420
GAGCTACTGT	GGaTTAATAT	TATGCCTGGC	AACGTTCTAC	TCTAGCGGAA	CGTAAGTtCG	480
GACTrACCAT	CGACGCTgAA	GGAGCTTAAa	CTTCTGTGTT	CgGCATGGGa	ACAGGTGTGA	540
CCTCCTTGCT	ATAGTCACCA	GACATATGGA	ATGTGAATTT	GATGACATTG	CAAAAnTAGn	600
TTAGTAAGTA	AAAGTGGATT	TTGGnTTn				628

# (2) INFORMATION FOR SEQ ID NO: 3852:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3852:

TAAAGATTTA	AAAGTAGCTG	TTATTGGnAC	AGGTCGAATT	GGCCGTGTAG	TAGCCGATAT	. 60
ATTTGCCAAT	GGTTATCAAA	GTGATGTGGT	CGCATACGAC	CGTTTCCTAA	TGCTAAAATT	120
GCAACGTATG	TCGATTACAA	AGATACGATT	GAGGAAGCGG	TTGAAGGTGC	<b>GATATCGTG</b>	180
ACATTACATG	TACCTGCAAC	GAAATATAAT	CATTATCTAT	TTAATGCTGA	ATTATTTAAA	240
CATTTTAAAA	AGGGCGCnTA	TTTGTCAATT	GTGCGAGAGG	TTCTTTAGTA	GGATACTAAG	300
GCGTTATTAG	ACGCATTAGA	CAATGGTGTG	ATTAAAGGTG	CAGCACTTGn	TTACGTATGG	360
ATTTGGAACG	GCAAACTTTT	TCCCAAGTGG	TCCAAAGGGG			400

# (2) INFORMATION FOR SEQ ID NO: 3853:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3853:

TCTTAAACAT TAGCCACAGC TAATTGTGAC TTAAAAATAG GAATACATGA GTAAAACTCA 60
TCATAAGAAA TACTAATTTC TATAGAAAAA GTATTACTTT ATCGTTGTCC CACCCCAACT 120
TGCACATTAT TGTAAGCTGA CTTTCCGCCA GCTTCTGTGT TGGGGCCCCG CCAACTTGCA 180
CATTATTGTA AGCTGACTTT TCGTCACTTG CTGTGTTGGG GCCCCGCCAA CTTGCACATT 240
ATTGTAAGCT GACTTTTCGT CACTTTCTGT GTTGGGGCCC CGCCAACTTG CATTGTCTGT 300
AGAAATTGGG AATCCAATTT CTGCTATGTT GGGGCCCACA CCCCAACTTC GCATGCCTG 360
TAGAATTTCT TTTCGAAATT CTCTGTGTTG GGGGCCCACA CCCCAACTTC GCATGCCTG 400

#### (2) INFORMATION FOR SEQ ID NO: 3854:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3854:

GTGCAATCTG CGTTAACAAA TGTAAATCGT GTCAATGAGC GATTAACGCA AGCAATTAAT 60

CAATTAGTAC CTTTAGCTGA TAATAGTGCT TTAAAAACTG CTAAGACGAA ACTTGATGAA 120

GAAATCAATA nATCAGTAAC TACTGATGGT ATGACACAAT CATCAATCCA AGCATATGAA 180

AATGCTAAAC GTGCGGGTCA AACAGAATCA ACAAATGCAC AAAATGTTAT TAACAATGGT 240

GATGCGACTG ACCAACAAAT TGCCGCAGAA AAAACAAAAG TAGAAGAAAA ATATAATAGC 300

TTAAAAACAAG CAATTGCTG ATTANCTCCA GACTTGGCAC CATTACAAAC TGCAAAANCT 360

CAGTTGCAAA TGNTATTGTC AGCCACGAGT ACGGCTGGTA 400

#### (2) INFORMATION FOR SEQ ID NO: 3855:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3855:

TGTGTGAAAA ACCAATGGCT GAAAACGACA GCAGAAGCTC AAAAAATGAT AGATACAGCT 60

AAATCAACAG GTAAAAAATT	AACAATAGGT	TATCAAAATC	GTTTCCGAGC	AGATAGTCAA	120
TTTTTACATC AAGCAGCGCA	ACGTGGCGAC	TTAGGAGACA	TTTACȚTCGG	AAAGGCACAT	180
GCCATTCGTC GTCGAGCAGT	ACCAACATGG	GGTGTCTTTC	TAGACGTAGT	AAGCTCAAGG	240
TGGAGGACCA TTAATCGATA	TCGGTACACA	CGCTTTAGAT	TTAACGTTAT	GGATGATGGA	300
TAnTTATGGA ACCAGAATCA	GTGATGGGTT	TCAACATTCC	ATAAATTnAA	TAAACAGCCT	360
CATGCGGGCA AACGCTTGGG	GTTTCAGGnG	TTCCAGATGG			400

#### (2) INFORMATION FOR SEQ ID NO: 3856:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3856:

CGTTCTCAAT	AGAATGATTT	AAATCTTCGA	TTTCTTTATC	TAAATGACTA	CCAATTAAAT	60
CTATTTCTTC	TATTGTTAAA	TCGCTATCTC	CATCTTCTTT	TATCTCTGGT	ATTATTTTTT	120
CTTCAACTAA	GTCACGATAT	AATGTTTTTG	AATTTTCGTT	CAATTTCGAT	TCGTGATTTT	180
GAATACTTTT	CTTCCACACA	AATGTATATC	TATTGGCATT	AGCTTCTACT	TTTGTACCAT	240
СААТАААААТ	TGAATTATTA	TCAATAAGAT	TTTGCTTTAA	ACATTGACTA	<b>G</b> GAACTGAA	300
TAAATAAAGA	TTCAATTAAC	GCATCAGTAT	TAGGATT <b>C</b> AC	TCTAAAACGA	TTAATAGTTT	360
TATAAGAAGG	nGGTTGGAnC	nTGAGCGAAC	CACAnCATCC			400

#### (2) INFORMATION FOR SEQ ID NO: 3857:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 381 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3857:

GGCATACCAT GGTCAAACGC GTGATGATCA AGTAACATCA CATGTTCAAC ATATTTTTGA 60

AGTTGTGAAT GCACATGGTA AACATTTTTG TGCATTACCA CGTGAAGATG AAGATATTGC 120

AAAATGGCAG GCACAAGGTG TACAAACATT TATTTTAGGT GATGATCGCG GAAAAATATA 180

TCGCCATTTA AGTGCATCTC TAGCGACGTC TAAACAGAAA GGGGATGAAG GCTAATGCGT 240

AAAGTTCAAC CTGTTATTGA ACAATTAAAA GCACAATCTC ATCCAGTTTG TCATTANATC 300

TATGATTTAG TCGGACTGGG ACATCATTTG CANCATATTA CATCGNCCTT GCCGAGTAAT 360

- (2) INFORMATION FOR SEQ ID NO: 3858:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3858:

GCATGAAGCC	CCCCTCAAGA	TGAGATTTCC	CAACTTCGGT	TATAAGACC	CTCAAAGATG	60
ATGAGGTTAA	TAGGTTCGAG	GTĞGAAGCAT	GGTGACATGT	GGAAGCTGAC	GAATACTAAT	120
CGATCGAAGA	CTTAATCAAA	ATAAATGTTT	TGCGACAATT	CACTTTTACT	TACTATCTAG	180
TTTTGAATGT	ATAAATTACA	TTCATATGTC	TGGTGACTAT	AGCAAGGAGG	TCACACCTGT	240
TCCCATGCCG	AACACAGAAG	TTAAGCTCCT	TAGCGTCGAT	GGTAGTCGAA	CTTACGTTCC	300
GCTAGAGTAG	AACGTTGCCA	GGCAAAAAAT	GGATGCCGAT	GGAGCCGCAT	TGAGACCGCA	360
GGnCTnTTTG	TTTTTTATGT	CTAAAACGTC	CAAATTAAnA			400

- (2) INFORMATION FOR SEQ ID NO: 3859:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 573 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3859:

GTTTATTAAT	CGTGTCATTA	GCATCTTTAT	AATTGCTTCT	AATCGTATTC	AAATCACCTA	60
ATGTTAAATC	TGTTTTAACA	TTATTTTGAA	TTTCATTCAT	GCATCTGAAT	CTGAATCGCT	120
ATCTGAATCT	GAGTCGTTGT	CTGAGTCCGA	nTCGCTATCT	GAnTCTGAGT	CGCTGTCTGA	180
ATCTGAATCG	CTATCCGAGT	CTGAGTCGCT	ATCTGAGTCT	GAGTCGCTAT	CTGAATCTGA	240
ATCGCTGTCT	GAGTCTGAAT	CGCTATCTGA	GTCTGAATCG	CTGTCCGAAT	CTGAGTCGCT	300
ATCTGAATCT	GAATCGCTAT	CTGAATCTGA	GTCGTTGTCT	GAGTCCGAAT	CGCTATCTGA	360
ATCTGAGTCG	CTATCTGAGT	CTGAGTCGCT	ATCTGAATCT	GAGTCGCTGT	CTGAATCTGA	420
ATCACTGTCT	GAGTCTGAGT	CGCTGTCTGA	AGTCTGAATC	GCTGTCAGAA	TCTGAGTCGC	480
CAACTGAGTC	TGAATCTGAA	TCACTGGTCT	GAGTCCGAAT	CGCnATCTGA	ATCnGAATCG	540
CnAACCGAGT	CCGAAGCCGC	nAATCCGAAT	CTG			573

# (2) INFORMATION FOR SEQ ID NO: 3860:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3860:

G	AGCTACACC	GCCTTATATA	GTTTGTAAAT	AATATGGTGG	AGACTAGCGG	GATCGAACCG	60
C	TGACCTCCT	GCGTGCAAAG	CAGGCGCTCT	CCCAGCTGAG	CTAAGCCCCC	ATAATAATTA	120
C	AGTATATCG	GGAAGACAGG	ATTCGAACCT	GCGACCCCTT	GGTCCCAAAC	CAAGTGCTCT	180
A	CCAAGCTGA	GCTACTTCCC	GTATAATTAA	CGCGCCCGAT	AGGAGTCGAA	CCATAACCT	240
C	TTGATCCGT	AGTCAAACGC	TCTATCCAAT	TGAGCTACGG	GCGCATATGT	TTTTATTGnA	300
A	AATGGTGCC	GAGGnACCGG	GAATCGGAAC	CGGTACGGTT	GATnCACTCA	CCGGCAGGAT	360
Т	TTTAAGTCC	TGTGCGTCTG	CCAGTTCCGC	CACCCCGnGC			400

### (2) INFORMATION FOR SEQ ID NO: 3861:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3861:

TGTTGCGACT AAACCATTAC CTATCGCACA TATGACGAAA CCAATGATAA CTG	CAATGAC 60
ATATTGTGAT GCCAATAATT GAGTCATGCT AATAATAGTG ATGCCGATGA CAG	GGAACAA 120
CGGACCAATG ATGAGCATCA ATTTGCCACC GAAACGTAAT GTTGCTTTTT CAC	CTAAACG 180
AATCATCGCA ACTGCCACAA TGGCATATG CAATGTAACA nGTCCAGATT GCGC	CACTGAT 240
AAACCAAGGT GTGTTTGAGC ATATATGAAA AAGACCACTG TTACGCCTAG ACC	GCTATTT 300
AAAACAAAGT TATTTAAAAA TGCACCAATG GAACGGACGG TTGCGTAATA CTG	GAGAAnT 360
CAATAAAAGG TACTTCCATG TCCGACGTTC CGATGGATGG	400

- (2) INFORMATION FOR SEQ ID NO: 3862:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3862:

GTGCGCATGG GAACTATCAA GCTTTGAAGA TGTGGTACTA CATGCGTTGA ATTAGGGAT	CC 60
GGTACTTTAT ATGAAGACGT GCTGCTTCCA TTAAATGAGT GATGCGATTT TGGCATGAA	AG 120
GTCACCTTAA ATGTACATTG TTGTAATAAA ATTGCCTATA AATTTTTAGC ACATAAAAT	CA 180
AGAGGAGCCA ACCATTGTTA GACTATAACA ACGGTTGGCT CTTTAATTGT AAAAAGAAA	AA 240
CCATACGCTA TGCGTATGGT TCAGAAAAGG TCTACCATTG TCACCAAAAA TGCATCTCT	A 300
CGTGCTAGAA TAAATATTGG TCAGCCAACC AAAATAATCC ACACGGGGAG ATGCTATTT	A 360
ATGTCCTCCT GACACCAACA GTTAGCACCA TACAAAATGG	400

### (2) INFORMATION FOR SEQ ID NO: 3863:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3863:

TCGGCAAGCC	ATTTTTCTTT	GTGTTTACTT	TTTATTTTGA	CGTTTTAGAC	ATAAAAAAAA	60
GAGACCTTGC	GGTCTCAATG	CGGCTCATCG	CATCCATTTT	TTGCCTGGCA	ACGTTCTACT	120
CTAGCGGAAC	GTAAGTTGGC	TACCATCGAC	GCTAAGAACC	TTTCTTGACT	rgtgacaatc	180
GCTTGCTTCT	TTCCTCTTCT	TCGGCTCTCG	CTTACTCATT	TAGCTCTACT	AAACTCGTTG	240
CGCTCTTTTC	TCGTTTCGTC	AGATTCAAAC	GTTTTCACTT	CGCCAAGCCA	TTTTTCTTTG	300
TGTTTGCTTT	TTATTTTGAC	GTTTTAGACA	TAAAAAAAAG	AGACCTTGCG	GTCTCAAATG	360
CGGCTCATCG	CATnCATTnT	TGCCGGCAAC	GTTCTACTCT			400

#### (2) INFORMATION FOR SEQ ID NO: 3864:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3864:

GTACTATAGA	ATTAAAGAAT	TATAAAAATA	TAATCCTGAT	TAGCTTGTTG	TCAAGTCATC	60
GTTCATAATG	AAGATATCAC	GTTCAATTGT	ATTGTTTGTT	TATGGGAAAT	GAATTAATGT	120
AATAGTATAT	GTATGCGGTT	ACATAAAAG	CGAACATCTA	ACCTGATATT	TAAATGAACC	180

TGACGCTCAA	TCAACTAATT	TACAACCGTA	TTTTTATAAT	CAACCATAAA	GGAGGAGATA	240
GAAAATGAAT	AGTGCAAAAT	TGATTGATCA	CACTTTATTG	AAGCCTGAGT	CAACACGTAC	300
GCAAATCGAT	CCAAATCATC	GATGAAGCGA	AGCATACCAT	TTTAAATCTG	ÆTGTGTGAA	360
TCCAACGCAT	GTTAAAnGTG	CCAGCAGAGC	GACTAGCTGG			400

### (2) INFORMATION FOR SEQ ID NO: 3865:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3865:

GCAGCACGTC	TTCATATAAA	GTACCGATCC	CTAATTCAAC	GCATGTAGTA	CCACATCTTC	60
AAAGCTTG <b>A</b> T	AGTTCCCATG	CGCACACCAC	GTTTCATACT	AGCTATGCGA	GCTCAACTTG	120
GTTCATAAAC	TCTTTAATAT	AAGTCAATGT	TTCAACCATC	GCTGGTGGTC	TTGGCACATG	180
TCCTTCTGCC	ATTTGATAAA	ATGTTTCATG	CGTGGCACCT	TTTAACTCTA	GTTGGTCCGC	240
TAAATAATAC	GCATGATGAA	TACCAACTTG	CTGGTCTTTC	CCTCCATGTA	CAATTAATAT	300
TGGCGGACTG	TTTTCATTAA	TGTTTGGÆT	CGCTTGGCGT	GCCTCATATG	CCGCTCGATC	360
TTTTTTCGGA	TGACCAATCA	TTCTTCGTAG	CATGCCTCTT			400

# (2) INFORMATION FOR SEQ ID NO: 3866:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3866:

AAGTCAATAA CTTTTTTAT	CTTGTCCATT	TTATTTTTA	ACCAAAATTT	GATTAAAAAA	60
CTGCCTGGCA ACGTTCTACT	CTAGCGGAAC	GTAAGTTCGA	nCTACCATG	ACGCTAAGGA	120
GCTTAACTTC TGTGTTCGGC	ATGGGAACAG	GTGTGACCTC	CTTGCTATAG	TCACCAGACA	180
TATGAATGTA ATTTATACAT	TCAAAACTAG	ATAGTAAGTA	AAAGTGATTT	TGCTTCGCAA	240
AACATTTATT TTGATTAAGT	CTTCGATCGA	TTAGTATTCG	TCAGCTCCAC	ATGTCACCAT	300
GCTTCCACCT CGGAACCTAT	TAACCTCATC	ATCTTTGGAG	GGGATCTTAT	AACCGGAGGT	360
TGGGGnAAAT CTCATCTTGA	GGGGGGCTT	CCAGGCTTAG			400

(2) INFORMATION FOR SEQ ID NO: 3867:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3867:

CACCTATAAT	CGTTTTAATC	GATGGGGGGA	CGCATAGGGA	TAGGCGAnGT	GnCGATTGGA	60
TTGCACGTCT	AAGCAGTAAG	GCTCAGTATT	AGGCAAATCC	GGTACTCGTT	AAGGCTGAGC	120
TGTGATGGGG	AGAAGACATT	GTGTCTTCGA	GGTCGTTGAT	TTCACACTGC	CGAGAAAAGC	180
CTCTAGATAG	AAAATAGGTG	CCCGTACCGC	AAACCGACAC	AGGTAGTCAA	GATGAGAATT	240
CTAAGGTGAG	CGAGCGAACT	CTCGTTAAGG	AACTCGGCAA	AATGACCCCG	TAACTTCGGG	300
AAGAAGGGTG	CTCTTTAAGG	TTAACGCCCA	GAAGAGCCGC	ATGAATAGGC	CCAAGCGACT	360
GTTTAnTCAA	AACACAGTCT	CTGCTAAACC	TAAGGATGTA			400

- (2) INFORMATION FOR SEQ ID NO: 3868:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 383 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3868:

TTCTTTGGAA	ATAGTAACGT	TGAAGTTGTA	CTCACTGGTG	ATACATTTGA	TCACTGTTTA	60
GCTGAAGCTT	TAACTTATAC	AAGTGAACAT	CAAATGAnCT	TTATAGATCC	ATTCAATAAT	120
GTTCATACAA	TTTCTGGACA	AGGTACGCTT	GCTAAAGAAA	TGCTAGAACA	AGCAAAGTCT	180
GACAATGTTA	ACTTTGATTA	TCTATTTGCC	GCAATTGGTG	GTGGCGGTTT	AATTTCAGGT	240
ATTAGTACTT	ACTTTAAAAC	CTATTCACCT	ACCACGnAAA	TTATAGGTGT	TGAACCTTCA	300
GGTGCCAAGT	AGTATGTGAT	GGAATCTGTT	GTGAAATATT	CAGGTAGTCA	CATTGCCCTA	360
Antcgataaa	TTTGTGGACG	GTG				. 383

- (2) INFORMATION FOR SEQ ID NO: 3869:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3869:

CTAAGCTTAA	GGGTTGCGCT	CGTTGCGGGA	CTTAACCCAA	CATCTACGA	CACGAGCTGA	60
CGACAACCAC	CACCTGTCAC	TTTGTCCCCC	GAAGAAGnGC	TCTATCTCTA	GATTGTCAAA	120
GGATGTCAAG	ATTTGGTAAG	GTTCTTCGCG	TTGCTTCGAA	TTAAACCACA	TGCTCCACCG	180
nTTGTGCGGT	TCCCCGTCAA	TTCCTTT <b>G</b> AG	TTTCAACCTT	GCGGTCGTAC	TCCCCAGGCG	240
GAGTGCTTAA	TGCGTTAnTG	CCAGCACTAA	GGGGCGGAAA	CCCCCTAACA	CTTAGCACTC	300
ATCGTTTACG	GCGTGGACTA	CCAGGGTATC	TAATCCTGTT	TGATCCCCAC	GGTTTCGCAC	360
ATCAGCGTCA	TTTACAGACC	AGAAAGTCGn	CTTCGGCAAT			400

#### (2) INFORMATION FOR SEQ ID NO: 3870:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 377 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3870:

ACTAAGGGAA	TCGAATTTTC	TTTCTCTTCC	TCCGGGTACT	AAGATGTTTC	AGTTCTCCGG	60
GTGTGCCTTC	TGATATGCTA	TGTATTCACA	TATCGATAAC	ATGACATAAC	TCATGCTGGG	120
TTTCCCCATT	CGGAAATCTC	TGGATCAAAG	CTTACTTACA	GCTCCCCAAA	GCATATCGTC	180
GTTAGTAACG	TCCTTCATCG	GCTTCTAGTG	CCAAGGCATC	CACCGTGGC	CCTTAATAAC	240
TTAATCTATG	TTTCCATCCT	ACAGGAAACG	CGTTATTAAT	CTTGTGAGTG	TTCTTTCGAA	300
CATGAGCGAT	TATTTCTTAT	GAATTCAAGC	TTATTTAAAA	CTCTTTATTC	ACTCGGTTTT	360
GCTTGGTAAA	.AGCnnGn					377

#### (2) INFORMATION FOR SEQ ID NO: 3871:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3871:

ATAACGTTGC CCCTCCCATG TATATCCTAC CCAAACATGA CCATCTTGTA ACATCACTTC 60

TGTATAATCA CAATACCCAC CAGGTTGGAA CTGATAACCC ACTGGACAAG ATAAGAATGG 120

CCCCACTTTT CTTACTGTGA TTGGTTGATT GCCGTTTGTG AATCTAGCAC TTTCTTCCAT 180

GTAGTAAGTA CCATATTTAT TACGTTCCA TGCACTTGCA ACTGGTTTAA CTGTATTACT 240

TGAAGCGCTT	GACTCATTAG	AGACAGTGGC	AACCGGTATT	TTACCATCCA	TGTACGCCCT	300
AAATCTGCTT	GATAAAGTAG	TCTTTTAAGT	TGCAACCGCT	TGTCTTCTGG	GCAATAGACC	360
GCGAGTTACn	GGGGTCCAAA	CCCnTGGTGT	AAAAnCGAAC	_		400

#### (2) INFORMATION FOR SEQ ID NO: 3872:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3872:

CGCTACACTA CGAGACCATT AGTAAAACGC AGGAAGAGGG ATTCGAACCC CCGCGAGCCG 60

TTAAGCCCCT GTCGGTTTTC AAGACCGATC CCTTCAGCCG GACTTGGGTA TTCCTCCAAA 120

ATTATATGGA CCTTGCAGGA CTCGAACCTG CGACCGAACG TTATGAGCCG TTAGCTCTAA 180

CCAACTGAGC TAAAGGTCCT AAATATAATT TTACAACTAA TAAATAGTGG CGGTGGAGGG 240

GATCGAACCC CCGACCTCAC GGGTGATGAA CCGTACGCTC TAGCCAGCTG NAGCTACACC 300

GCCTTATATA GTTTGTAAAT AATATGGTGG AGACTAGCGG GGATCGAACC GCTGTACCTC 360

CTGCGTGCAA ACGGGCGCTC TTCCCÆCTG NAGCTAAAGC 400

#### (2) INFORMATION FOR SEQ ID NO: 3873:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 584 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3873:

60	AAGTTGGCTA	AGCGGAACGT	GTTCTACTCT	GCCTGGCAAC	GTCTCAACTT	ACAGCTCACG
120	CCTCTCTTCG	TTGCTTCTTT	TGACAATCGC	TCTTGACTTG	TAAAGACCTT	CCATCGTCGC
180	rcgtcagatt	CTTTCTGTT '	TCGTTGCGCT	TCTACTAAAC	CTCATTTAGC	GTCTCGCTTA
240	TGACGTTTTA	CTTTTTATTT	TTTGTGTTTA	GCCATTTTTC	CATTCGCCAA	CAAnnGTTTT
300	TTTTTTGCCT	ATCGCATCCA	AnTGCGGCTC	TGCGGTCTCA	AAAGAGACCT	GGCATAAAAA
360	GACCTTTCTT	CGTCGCTAAA	GGGCTACCAT	GAAnTAAGTT	TACTCTAGCG	GGCAACGTTC
420	CATTTAGCTC	CTCGCTTACT	TCCTTCGGCT	TTCTTTCCTC	AATCGCTTGC	GACTTGTGAC
480	ACTTCGCCAA	AAACGTTTTC	CGTCAGATTC	TTTCTCGTTT	GTTGCGCTCT	TACTAAACTC

GCCATTTTTC TTTGTGTTTA CTTnTnATTT TGACGTTTTA GACATAAAAA AAAGAGACCT	540
TGCGGTCCAA ATGCGGGCTC ATCGCATCA TTTTTTGCCT GGGC	584
(2) INFORMATION FOR SEQ ID NO: 3874:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3874:	
TTTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAnTTGG CTACCATCGT CGCTAAAGAC	60
CTTTCTTGAC TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT	120
TTAGCTCTAC TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAA CGTTTTCACT	180
TCGCCAAGCC ATTTTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAA	240
GAGACCTTGC GGTCTCAATG CGGCTCATCG CATCCATTTT TTGCCTGGCA ACGTTCTACT	300
CTAGCGGAAC GTAAGTTGGG CTACCATCGA CGCTAAGAAC CTTTCTTGAC TGTGACAATC	360
GCTTGCTTCT TTCCTCTTCT TCGGCTCTCG CTTACTCATT	400
(2) INFORMATION FOR SEQ ID NO: 3875:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3875:	
TCTGCTAATT TAAAAATGAT ATTTTCTATC TTTTCTTTAT TATTAACGTC TAATGCACTG	60
GTCGATTCAT CTAATAAAAG AATATCCGGT GTATACATCA GTTGGCGCGC TATAGCAATT	120
CTTTGCCGCT CACCACCCGA CATATTTCC ACTTCCGAAC TTAATTGATA ATGTCCCAAA	180
CCGACATCTT TAATTAATTG CTTTGCACGT TTTCTATCAA ATTTATCATT ACGTGCAAGT	240
GATGGGAATA TCATGTTATC TTCAATCGGT CACCAAACAA GTCACTTTGC TGCATCAAAT	300
AACTGATTCG TTGACGCCAA TTCTTCCGGG GCATAATnCA TATAGGGGTTACCTTAAAAA	360
TAAAGGTCCT CCACTAGTTG GCCTAnACnA ATTACATAAn	400

- (2) INFORMATION FOR SEQ ID NO: 3876:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3876:

AGATAGACTT TCTGGTGAAG ATACACGTGA AGGTATGACA GCAATTATAT CTATCAAACA 60
TGGTGATCCT CAATTCGAAG GTCAAACGAA GACAAAATTA GGTAATTCTG AAGTGCGTCA 120
AGTTGTAGAT AAATTATTCT CAGAGCACTT TGAACGATTT TTATATGAAA ATCCACAAGT 180
CGCACGTACA GTGGTTGAAA AAGGTATTAT GGCGGCACTG CACGTNTTGC TGCGAAAAAA 240
GCGCGTGAAG TAACACGTCC GTAAATCAGC GTTAGATGTA GCAAGCCTTC CAGGTAAATT 300
AGCCGATTGC TCTAGTAAAA GTCCTGAAGA ATGTGAGATT TCTTAGTCGA AGGGGCTCTG 360
CCGGGGGGTC TACAAAATCT GGTCGTGACT CTAGACCGCA 400

- (2) INFORMATION FOR SEQ ID NO: 3877:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3877:

ACCAATTCT CCTTTGTATC CGCCATCTT AAATAATTT ACTGCTCTAG CATGAGCCAC 60

CATCATGTTA TGTGATTGGA ATACTTTTC AAAATCATAT TTAATACTG GAGGGAATTT 120

ACCTACTAAA TATTGACCAT CACCAATAGG TCCAATTTCA TTGAATGTAG TCCAATATTT 180

TACTTCTGGG AATTCTTTAA AACAATATTC AGCATAATCT ACAAAGTAGT CAATCGTTTT 240

ACGnTTTAGA AAATCGCCAT CTTTGGTGGT ACACTTCTGG GnGTATCAAA ATGNTGCAAT 300

GTTACAAAATG GTTCAACATG ACGGTTTATG GnCACTCTGC AAATAACCTT ATGGTAATAC 360

TCAACACCTT AGGGGTTAAC TTCGGCCATA TCCCTTTTGG 400

- (2) INFORMATION FOR SEQ ID NO: 3878:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3878:

ATTAAAGCAG TTTCTGGATC TGGTAAAAAT GGTCGTATTA CAAAAGAAGA TGTAGATGCA 60

TACTTAAATG	GTGGTGCACC	AACAGCTTCA	AATGAATCAG	CTGCTTCACT	AACAAGTGAA	120
GAAGTTGCTG	AAACTCCTGC	AGCACCTGCn	GCAGTTAACA	TTAGAAGGCG	ACTTCCCAGA	180
AACAACTGGA	AAAAATCCCT	GGCTATGCGT	AGAGCAATTG	CGAnAACATG	GGTTTAACTC	240
TAAGCATACT	GCACCTCATG	TAACATTAAT	GGATGAAATT	GGATGTT <b>E</b> A	GCATTATGGG	300
GATCACCGTA	AGAAATTTAA	AGAAATCGCG	GCTGAACAAG	GTACTAAGTT	AACATTCTTA	360
CCTTATGTTG	TTAAnGCACT	GTTTTCGGCA	TGGnAAAAAT			400

# (2) INFORMATION FOR SEQ ID NO: 3879:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3879:

TTGCGCTCTT TTCTCGTTTC	GTCAGATTCA	AACGTTTTCA	CTTCGCCAAG	CCATTTTTCT	60
TTGTGTTTAC TTTTTATTTT	GACGTTTTAG	ACATAAAAAA	AAGAGACCTT	GCGGTCTCAA	120
TGCGGCTCAT CGCATCCATT	TTTTGCCTGG	CAACGTTCTA	CTCTAGCGGA	ACGTAAGTTG	180
GCTACCATCG ACGCTAAGAA	CCTTTCTTGA	CTTGTGACAA	TCGCTTGCTT	CTTTCCTCTT	240
CTTCGGCTCT CGCTTACTCA	TTTAGCTCTA	CTAAACTCGT	TGCGCTCTTT	TCTCGTTTCG	300
TCAGATTCAA ACGTTTCACT	TCGCAAGCCA	TTTTTCTTTG	TGTTGCnTTT	ATTTGACGTT	360
TAGACATAAA AnAAGAnCCT	TGCGGnCTCA	ATGCGGCCAT			400

# (2) INFORMATION FOR SEQ ID NO: 3880:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3880:

TAGGTGTAAA	TCCTGCGATT	CGATCTGGAC	CATATTTTTT	TATETATAC A	AGTAATTGTG	60
CTGCGATTAT	CTCTGTAACG	TCTTTCCAAT	TTGAACGCAC	GTGCCCTCCC	ATACCTCGGG	120
CTTGCTTATA	TTGTTTGGCT	TTGTCTTCAT	TTTCAACAAT	AGACGCCCAT	GCAGCAACGC	180
GATTACCATT	GTTTTCTTCT	AATGCTTCAG	TCCATAAATC	CCAGAGTTTT	CCACGAATAT	240
ATGGATATTG	ATTCGAAGCG	GACTGTATCA	TACCAAGAGA	ATGACGCACT	CGTGGACATC	300
CTCTCGGTCA	TATTCAGGCA	TATCCGGACA	CAACTTGGAT	AGCAGTTGTG	ATTTCCCAGG	360

# (2) INFORMATION FOR SEQ ID NO: 3881:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3881:

TGAGTAGCGA AAGACGGGTG AGAATCCCGT CCACCGATTG ACTAAGGTTT CCAGAGGAAG	60
GCTCGTCCGC TCTGGGTTAG TCGGGTCCTA AGCTGAGGCC GACAGnGTAG GCGATGGATA	120
ACAGGTTGAT ATTCCTGTAC CACCTATAAT CGTTTTAATC GATGGGGGGA CGCAGTAGGA	180
TAGGCGAACG TGCGATTGGA TTGCACGTCT AAGCAGTAAG GCTGAGATT AGGCAAATCC	240
GGTACTCGTT AAGGCTGAGC TGTGATGGGG AGAAGACATT GTGTCTTCGA GTCGTTGATT	300
TCACACTGCC GAGAAAAGCC TCTAAGATAA GAAAATTAGG TGCCCGTACC GCAAACCGAC	360
ACAGGTAGTC CAAGATGGAG AnTCTnAAGG TGGAGCGAGC	400

# (2) INFORMATION FOR SEQ ID NO: 3882:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 609 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 382:

60	TGGGGCCCTC	ACTTCTGTGT	ACTTTTCGTC	TTGTAAGCTG	TTGCACATTA	CATCCCCAAC
120	G GGGCCCCTGA	CTCTGTGTTG	TTTCGAAATT	TAGAATTTCT	GCATTGCCTG	ACCCCAACTC
180	C TGCCAATATA	AGTCAACTAC	ATTTTCGTTC	TTACAAGCGC	AAAAAGCTTG	CTAGAATTGA
240	CTATAAAAGT	AGTTAATTTT	TCCCAGCCTG	TTGATTTATG	<b>G</b> CATAG <b>AA</b> TA	ACTTCGTAGA
300	CCCTTTCTAT	TTTGTCAAAC	TCACTTTAGC	CCGTCAAACT	TGCGTTTATA	ATATTTAATT
360	GTAGTTTAAT	TCGAGAATTC	TATAAAAAAA	TATCTTAAAA	GAAATAAACC	TAAGTTTTCA
420	ACAAACAAGT	TTCCACAAA	aTACTCAATT	CCTTTTGaAT	TCGTTCTTAT	AACGAAATTC
480	CTTAACTAAA	TATTAAAATA	TACTACTTGT	TAGAATGACA	TTCTAGCTAC	AGTATATCTG
540	CAnGAATGTC	TGACGCTTTT	CTACGTGGAC	CTCTATATTT	TATCTTTnTT	CTTTATTAGT
600	ATGGTTTATT	TGGTAAGCGG	GATATATTCT	TGGACTCCTG	TCTTCTTGGT	AGATTCATAA

CGGAGTCAA 609

(2	) INFORMATION	FOR	SEO	TD	NO:	3883:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 394 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3883:

ATATATTGGC GGACATAACG ATGTACTAGC AGGTGTCGTA AC	CCGTCAAAG ATGAATCACT 60
CGCGCAACAG TTGTTTGATT TTCACAACAT GACTGGCGCA AC	CACTTTCAC CAATAGATAG 120
TTATTTGTTG TTACGTGGAC TTAMACTTT GCATTTACGC AT	TGAGCGTG CGCAATCAAA 180
CGCTAGAAAA CTTGCTAAAA AATGTCAGTC ACTTCAAGCA AT	TTGACGAAt ACTaTATAGC 240
GGGCAAACTG GCATGCTTAG TTTAAGACTT AACAAGGCCT AT	TAGCGTCGC TAAATTATTA 300
GAAAATTTAG ACATTTGCAT TTTTGCAGAA AGTTTAGGAG GT	FACKGAAACATTAGTGACC 360
TTCCCTTACA CCCAAACACt GTTGATATGC CAGT	394

- (2) INFORMATION FOR SEQ ID NO: 3884:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3884:

CGATTAATGA ATTAACAGAA TACGGACCAG AAACGATAAC ACCAGGTO	CAT CGAGACGAAT 60
TTGATCCGAA GTTACCAACA GGAGAGAAG AGGAAGTTCC AGGTAAAG	CCA GGAATTAAGA 120
ATCCAGAAAC AGGAGACGTG TTAGACCACC GGTCGATTAG CGTAACAA	AAA TATGGACCTG 180
TAAAAGGAGA CTCGATTGTA GAAAAAGAAG AAATTCCATT CAAGAAA	GAA CGTAAATTTA 240
ATCCTGATTT AGCACCAGGG ACAGAAAAAG TAACAAGAGA AGGACAAA	AAA GGTGAGAAGA 300
CAATAACGAC GCCAACACTA AAAAnTCCAT TAACTGGAGA ATTATTAG	TA AAGGTGATCG 360
AAAGAGGAAT CACAAAAGTT CCnTTTATGA TTAACAGATA	400

- (2) INFORMATION FOR SEQ ID NO: 3885:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3885:

TGAGCGGATT	ATTTCTTATG	AATTCAAGCT	TATTTAAAAC	TCTTTATTCA	CTCGGTTTTG	60
CTTGGTAAAA	TCTATATTTT	ACTTACTTAT	CTAGTTTTCA	ATGTAKAAT	AATGGTGGGC	120
CTAAGTGGAC	TCGAACCACC	GACCTCACGC	TTATCAGGCG	TGCGCTCTAA	CCAGCTGAGC	180
TATAGGCCCA	TTTTTTTGAA	TGTTAAATAA	ACATTCAAAA	CTGGAATACA	ATATGTCACG	240
TTATTCCGCA	TCTTCTGAAG	AAGATGTTCC	GAATATATCC	TTAGAAAGGA	GGTGATCCAG	300
CCGCACCTTC	CGATACGGCT	ACCTTGTTAC	GACTTCACCC	CAATCATTTG	TCCCACCTTC	360
GACGGCTAGC	TCCCAAAAGG	GTACTnCCAn	CGGGnTTCGG			400

# (2) INFORMATION FOR SEQ ID NO: 3886:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3886:

TACGGTAGGT	GGCAAGCAGT	TATCCnGGAA	TTATTGGGCG	TAAAGCGCGC	GTAGGGGTTT	60
TTTTAAGTCT	GATGTGAAAG	CCCACGGCTC	AACCGTGGAG	GGTCATTGGA	AACTGGAATn	120
CTTGAGTGCA	GAAGAGGAAA	GTGGAATTCC	ATGTGTAGCG	GTGAAATGCG	CAGAGATATG	180
GAGGAACACC	AGTGGCGAAG	GCGACTTTCT	GGTCTGTAAC	TGACGCTGAT	GTGCGAAACG	240
TGGGGATCAA	ACAGGATTAG	ATACCCTGGT	AGTCCACGCC	GTAAACGÆG	AGTGCTAAGT	300
GTTAGGGGGT	TTCCGCCCCT	TTAGTGCTGC	AGCTAACGCA	TTTAAGCACT	CCGCCTGGGG	360
GAGTTACGAC	CGCAAAGTTT	GGAAACTCAA	AGGGAATTGG			400

#### (2) INFORMATION FOR SEQ ID NO: 3887:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3887:

ATTTTTTAAT	TTTCATGCAA	ATTTTTAAGC	ACCATATAAT	GCCTACCAAA	TTTCAATAAT	60
CTTTGTTGCC	GTTTAAATAA	TGTGAATGTC	AATAAATTCT	CCAAACTAGT	CGAAAATAAA	120

GGGAGTnGGA	CATAAATCCC	TAAAAAAAACA	GCAGTAAGAT	AATTTTCAAT	TAGAAAATAT	180
CTTACTGCTG	TTCTCTATTT	ATACAATACT	TCGTATTGAA	TGGCTTCGCT	TTCCnAGGGT	240
GCCGTCTCAG	CCTCGGTCTT	CGACTGGCAC	TGCTCCCTCA	GGAGTCTCGC	CATTAATACT	300
ACGTATTAAC	ATGGAATTTT	ACTTTTACAT	ACTTTAAAAA	ATAAGnCACT	TTGGCCAACT	360
TACACTACCA	TAGGAACCCT	GGTAGGAATC	CCCCAAATGn			400

#### (2) INFORMATION FOR SEQ ID NO: 3888:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3888:

ATACGACAAT	CACAGCAATA	ATAATTGCTT	TAGAAAGTCG	TGCGAACTG (	GAACTTACAA	60
GTCTAGTTCG	AACACACACT	GATGTGAGTG	GTTTTATTTA	TTTTAAACAT	GAACAATCAG	120
ATAAGTTACT	AGCATTAGCA	AATATTATTA	AATCAAAGGG	CTTCGATTCA	TAAAATTAAA	180
ACAATGATTA	AAATTAGACG	TGTAAATGTT	AAATTCTAAA	ACGGAAATAA	CCACCATCCC	240
ATTAAACCAC	TTTnATnGTT	CAATCACTAT	ATTTCACACA	GCTTCATTAA	TAAAACGACT	300
TGCTTCAACC	CGCTTCAACT	TCAACTGGCT	TCAACTTCAG	CCTACTTCAT	TCAATnACAA	360
AACGAATCCG	CTTCATCCAA	AATCAnCCAT	TCTAACGCAC			400

## (2) INFORMATION FOR SEQ ID ND: 3889:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 485 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3889:

CCATGCnAGA CGCATAC	ATT GTaGCTTATG (	GGCGTTCAGC	gCAGCGAAmG	aAAGCAAGGC	60
GCATTATTCC ACGAAAG	ACC TGATGATGTC	GCAGCCAAAG	TATTACAAGG	CGTATTGAAA	120
CGTATTGACG GAAAATT	CAA TAAGAATATG	ATTGAAGATG	TCATTGTTGG	TACGGCTTTT	180
CCAGAAGGAT TACAAGG	CCA AAACATTGCA	CGAACGATTG	CATTGGTGC (	GGGATTATCT	240
GACACGGTAC CGGGTCA	AAC AGTGAATCGC	TACTGCTCAT	CAGGATTACA	AACCATCGCG	300
ATTGCAGCCA ATCAAAT	TAT GGCTGGTCAA	GGAGATATAC	TTGTAgCTGG	TGGCGTTGAA	360
TTGATGAGTG CCGTACC	AAT GGGTGGCAAC	GAGCCCACAA	ACAATCCaAC	CTTWACAATA	420

tGaTGATATA GGTGCGTCCA TATnCCTATG GGTTTnAAnT GCTGGAAAAT GTTAGCCTnC	480
CCAAT	485
(2) INFORMATION FOR SEQ ID NO: 3890:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 389 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3890:	
AGGCAGATGC TCTCCCAGCT GAGCTAATTC TCCAAAATAA TGACTCCTAC GGGACTCGAA	60
CCCGTGTTAC CGCCGTGAAA GŒCGTGTCT TAACCGCTTG ACCAAGGAGC CATGGCTCAC	120
AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC	180
TGTGGGATTA ATATTATGCC TGGCAACGTT CTACTCTAGC GGAAnTGAAT TCGGACTACC	240
ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGGA CCTCCTTGCT	300
ATAGTCACCA GACATATGAA TGTAATTTAT ACATTCAAAA CTAGATAGTG AAGTAAAAGT	360
GGTTTTGCnT CGCAAAACAT TTATTTTGn	389
(2) INFORMATION FOR SEQ ID NO: 3891:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3891:	
CAGATGTTTA AGTCCTGTGC GTCTGCCAGT TCCGCCACCC CGGCACTATA AAAATGGAGC	60
AGAAGACGGG ATTCGAACCC GCGACCCCAA CCTTGGCAAG GTTGTATTCT ACCGCTGAAC	120
TACTTCTGCA TATGCGGGTG AAGGGAGTCG AACCCCCACG CCGTAAGCTn AGATCCTAAG	180
TCTAGTGCGT CTGCCAATTC CGCCACACCC GCAAATGGTG AGCCATAGAG GATTCGAACC	240
TCTGACCCTC TGATTAAAAG TCAGATGCTC TACCAACTGG AGCTAATGGC TCTTCCATGG	300
TGCCGGCCAG AGGACTTGAA CCCCCAACCT ACTGGATTTA CAAGTCAGTT TGCTCTACCA	360
ATTGGAGCTA GGGCCGGGCA ATATGGTAAG AATAAATTGG	400
(2) INFORMATION FOR SEQ ID NO: 3892:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 400 base pairs

(B)	TYPE: nucl	eic	acid
(C)	STRANDEDNE	:ss	double
(D)	TOPOLOGY:	line	ar

(xi)	SEQUENCE DE	SCRIPTION: S	SEQ ID NO: 3	3892:		
CTCTCGGTG	G TCGTGCTACA	ACTGGTAAAA	ATGTACATGT	AGGGCTGGC	GCAGTATTAG	60
CAGGTGTGA	T TGAACCCCCT	AGTGCTTCAC	CGGTTATAAT	CGAGGATGAT	GTATTAATCG	12
GTGC <b>AAA</b> TG0	C AGTTATTTTA	GAAGGTGTAC	GTGTTGGTAA	AGGTGCTATT	GTTGCAGCTG	180
GCGCGATTGT	r gacacaagat	GTACCAGCTG	GTGCAGTTGT	TGCTGGTACA	CCTGCAAAAG	24
TGATTAAGC	A AGCTTCTGAA	GTACAAGATA	CTAAAAAAAGA	GATTGTAGCA	GCATTAAGAA	30
AACTGAATGA	A CTAGTGACGT	CAACGTATAA	TAATTTCCAG	GTTGAGATAC	GATTATGTCT	360
CCACCnTAAT	r GGTnTAGCAT	TGAATAAACT	TATGnnCCCC			400

# (2) INFORMATION FOR SEQ ID NO: 3893:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3893:

GAATGTAGTT	GTGGTAAATA	CAAACGTGTT	CGCTACAAAG	GCATGGTCTG	TGACAGATGT	60
GGAGTTGAAG	TAACTAAATC	TAAAGTACGT	CGTGAAAGAA	TGGGTCACAT	TGAACTTGCT	120
GCTCCAGTTT	CTCACATTTG	GTATTTCAAA	GGTATACCAA	GTCGTATGGG	TATTATTACT	180
TGACATGTCA	CCAAGAGCAT	TAGAAGAAGT	TATTTACTTT	GCTTCTATG	TGTTGTAGAT	240
CCAGGTCCAA	CTGGTTTAGA	AAAGAAAACT	TTATTATCTG	AAGCTGAATT	CAGAGATTAT	300
TATGATGAAA	TACCCAGGTC	AATTCGTTGC	CAAAAATGGG	TGCCAGAAGG	TCATTAAAAG	360
ATTTACTTGA	AGnnGATTGA	TnCTTGACGA	GGGAACTTnA			400

# (2) INFORMATION FOR SEQ ID NO: 3894:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 389:

CACGTGAAGT TAGAGATACT TCATTACGTG TACCTCACGG CGCTGGCGGT ATCGTTCTTG 60

ATGTAAAAGT	ATTCAATCGT	GAAGAAGGCG	ACGATACATT	ATCACCTGGT	GTAAACCAAT	120
TAGTACGTGT	ATATATCGTT	CAAAAACGTA	AAATTCATGT	TGGTGATAAG	ATGTGTGGTC	180
GACATGGTAA	CAAAGGTGTC	ATTTCTAAGA	TTGTTCCTGA	AGAAGATATG	CCTTACTTAC	240
CAGATGGACG	TCCGATCGAT	ATCATGTTAA	ATCCTCTTGG	TGTACCATCT	CGTATGAACA	300
TCGGACAAGT	ATTAGAGCTA	CACTTAGGTA	TGGCTGCTaA	AAATCTTGGT	ATTCACGTTG	360
catcaccagt .	AT <b>T</b> TG <b>a</b> CGGT	GCaAACGrTG	aCGATGTATG	GTCAnCAMT	GAAGAAGCTG	420
GTATGGCTCG	TGATGGTAAA	ACTGTACTT	ATCGATGGAC	GTACCAGGTG	ACCCnTCCGA	480
TAACC						485

## (2) INFORMATION FOR SEQ ID NO: 3895:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 507 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3895:

GAACAACATA CCTTTC	GTTTG TTGATTCTTC	TCCACCTGTT	TCAAGTAGTT	CAGATTTCTT	60
AGATTGTGGT TTTTT	AGTTG GTGCCACTGc	TTTAACCTTT	TCATTGATTT	CAATAACAGG	120
TGTTACTACT TTACCT	TTGTT CCACTGGTTT	AGAAGGCTTT	TTAGGTTCTT	CTTTGGCAGG	180
TGGTACTGGT TTACCA	Angtt CAGCTGGTAC	CTCTGGTGTT	GGCGGTGTTG	GAGTTTCTGG	240
CTCACTCGGC ACTTC	TGGTG TCGGTGGTGT	TGGTGTTTCC	GGCTCACTTG	GTACTTCTGG	300
TGTTGGTGGc GTTGGT	TGTTT CCGGCTCACT	TGGTACTTCT	GGTGTCGGTG	GCGTTGGtGG	360
CACGATTGGA gGTGT	IGTAT CTTCTTCAAT	CGTTTGTTGA	CCTTCATTTT	GGGCCGCTTA	420
CTTTTGGGAA GTGTAT	TCTTC TTCAAAGTCA	ACACTAATGT	GGTCCACCGG	AATTGATAAC	480
TGGGGTTAAC CTTAAA	ATTGG AACCTCC				507

#### (2) INFORMATION FOR SEQ ID NO: 3896:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3896:

CTAGCGGAAG TAATTGGCTA CCATCGTCGC TAAAGACCTT nGGnGACTTG TGACAATCGC 60

TTGCTTCTTT CCTCTCCTTC GGCTCTCGCT TACTCATTTA GCTCTACTAA ACTCGTTGCG	120
CTCTTTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATT TTTCTTTGTG	180
TTTACTTTTT ATTTTGACGT TTTAGGCATA AAAAAAAGAG ACCTTGCGGT CTCAATGCGG	240
CTCATCGCAT CCATTTTTTG CCTGGCAACG TTCTACTCTA GCGGAAnGTA ATTGGGCTAC	300
CATCGTCGCT AAAGACCTTT CTTGACTGT GACAATCGCT TGCTTCTTTC CTCTCCTTCG	360
GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC	400

# (2) INFORMATION FOR SEQ ID NO: 3897:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3897:

TTGAAGAAGA	TCGCGATGAC	TATACAATCA	ATATCGAGTA	TAATACCGAT	TTATATCACT	60
CAGAAACAGT	TCGTCACATG	GGTAATCAAT	GTATGATTAT	GATTGÆTAT A	ATTTTGAAGC	120
ATCAAGATAC	ACTACAAATT	TGTGATATAC	CAAACGGCAC	GAGGAACTTC	TAAATTGGGT	180
CAAT <b>A</b> CGCAT	GTTAACGATC	GAATGCTTAA	TGTCCCGGGA	AATAAATCTA	TCATAAGTTA	240
CTTTAATGAA	GȚTGTCTCAC	GACAAGGTAA	TCATGTTGCG	CTAGTCATGA	ATGAnTTGAC	300
AATGACGTAT	GAAACATTAC	GCAACTATGT	GGGATGCCAT	TGCGCACATG	CTCCTATCAA	360
ATGGTGTGGG	CAATGGTCAA	CGGGTTGCCT	TGGTGTACAG			400

#### (2) INFORMATION FOR SEQ ID NO: 3898:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3898:

60	TGGCTCTGGT	TTAATACAGT	GGGAAAGTGG	TAATCCACAA	TTAAAGCAGT	GAAATCAGTA
120	TGAAAAAGCA	GTTTAACGAT	ATTGCTTCAG	GGTGGCTGGA	TTGCAGGCAT	GATAGTACAG
180	r AGCAACACGG	ATGAGGACTT	ACGGCATTTG	CGGTACTGCC	CAGTCGCATG	TTCCAACAAG
240	G GGAGTGAAAA	TACTTGATGG	ACGATTAGCG	ATCACAAGTT	AAAAAAAA	GACGCTATAG
300	ATGGCAAATG	AATGGATTA .	ATACAATAGC	TTAACAAAAG	AACAGAGTTA	TAATGAGAGT
360	r AAATTAAGTG	CCAAGCAGGT	ATCAATTAGA	GAGTTAGTAA	TGTTATTGAT	ACAAAAATGG

ATGTCGCGTC ATTTAAnGGA AGCGATTCAC CATCGnGATC	400
(2) INFORMATION FOR SEQ ID NO: 3899:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3899:	
TATCAATTTC ACACTCAATG CGGCTCATCG CATTCATTTC TTGTCTAGCA ACGTTCTACT	60
CTAGCGGAAC GTAAGTTAGC TACCATCCTC GCTAAGAACC TTTCTTGACT TGTGACAATC	120
GCTTGCTTCT TTCCTCTCT TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG	180
CGCTCTTTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG	240
TGTTTACTTT TTATTTTGAC GTTTTAGACA TAAAAAAAAGA nACCTCACGG TCTCAACTTG	300
CCTGGCAACG TTCTACTTCT AGCGGAACGT AAGTTGGCTA CCATCGTCGC TnAAAGACCT	360
TTCTTGGACT TGTGGACAAT CGGCTTGGCA nTCTTTnCTC	400
(2) INFORMATION FOR SEQ ID NO: 3900:	
<ul> <li>(i) SEQUENŒ CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3900:	
TGCACGCGTA TCTGATGGTT GCTCAGTTGC ATCTACCCAA GGTACCATT CCCTAAGTGA	60
ATTTCTTGAA CGATTGACTA AATTGAAAAG CGCTTCTGTG TCATGAGCTT CTAAAATTTT	120
TAATGTTATT TGTTCATTCA CTTTCATTCC AAACATACCA TCACATCCTC ATTCATTTTT	180
CATATAATTC TGTAAATTAT CATTATAATA ACATATTAAT GTTACGCATT GTATCTTAAA	240
TTTGTTGTCC TTCCCCAACT TGCATTGCTT GTAGAATTTC TTTTCGAAAT TCTCTATGTT	300
GGGGCCCGCn AACTTGCATT GTCTGTAGAA ATTACGGACC CAATTTCTCT AGGTGGGGCC	360
CATCCCCAAC TTGCACATTA ATnGCAAGCn GACTTTCCGT	400

- (2) INFORMATION FOR SEQ ID NO: 3901:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

# (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3901:	
TACTGCTGTT CACTTTTTAT AATACTTCTG AATGTCTTCA CTTATACTTC TAGTCACAGA	60
TTTAAATAAT CAAAAGTGCA CATTATTAAA ATATCAATTT CACACTCAAT GCGGCTCATC	120
GCATTCATTT CTTGTCTCAA CGTTCTACTC TAGCGGAAGT AAGTTAGCTA CCATCCTCGC	180
TAAGAACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT CCTCTCTTC GGCTCTCGCT	240
TACTCATTTA GCTCTACTAA ACTCGTTGCG CTCTTTTCTC GTTTCGTCnG ATTCAAACGT	300
TTTCACTTCG CCAAGCCATT TTTCCTTGGT GGTTTACCTT TTAATTTGGA CGGTTTAGAC	360
ATNAAAAAAG GGGACCTCAC GGGCCCAACT TGGCCTGGGC	400
(2) INFORMATION FOR SEQ ID NO: 3902:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 400 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 390:

(D) TOPOLOGY: linear

TTA	ATTTTGAC	GTTTTAGACA	TAAAAAAAGA	GACCTCACGG	TCTCAACTTG	CCTGGCAACG	60
TTC	CTACTCTA	GCGGAACGTA	AGTTGGCTAC	CATCGTCGCT	AAAGACCTTT	CTTGACTTGT	120
GAC	CAATCGCT	TGCTTCTTTC	CTCTCCTTCG	GCTCTCGCTT	ACTCATTTAG	CTCTACTAAA	180
CTC	CGTTGCGC	TCTTTTCTCG	TTCGTCAGA	TTCAAACGTT	TTCACTTCGC	CAAGCCATTT	240
TTC	CTTTGTGT	TTACTTTTTA	TTTTGACGTT	TTAGGCATAA	AAAAAAGAGA	CCTTGCGGTC	300
TCA	ATGCGGC	TCATCGCATC	CATTTTTTGC	CTGGGCAACG	TTCTACTCTA	GCGGGAACGT	360
AAG	STTGGGCT	ACCAnCGGCG	GCTAAAGACC	TTTCCTGGAC			400

# (2) INFORMATION FOR SEQ ID NO: 3903:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE ESCRIPTION: SEQ ID NO: 3903:

TTGTTATAAC	GAAAACCATT	AATAGATTTT	TATTTGGTGA	TTTCAAATCA	TGAGACTGGG	60
ACAGAAATGA	TGTTTTCATA	AAAATTATTT	CGTTGTTCCA	CTCTCATGAT	TTTTTTGATG	120

AAACATAATT	ACATGATTGA	TTGCATCATT	TTGTTAAACA	AGTGATTGCA	AACCTGCCAT	180
TTCACACTGA	AAATTTACAT	AATAAGTGAC	GATATTTTAC	AAGTCATATA	CAAATAACAT	240
ATATTGTTAA	ATAATTTTAC	CTAATCTTAA	CATTAAATTT	ACAATTATAA	GCGATAATCT	300
AAATATAAAG	CTTATTTGAG	GTGAAATAAT	GGAAATGTCG	GTTACAGAAG	TCATTTTCTC	360
CTTTTTAGGT	GGGTTTAGGG	AATTCCnTT	ACGGCCTTAA			400

# (2) INFORMATION FOR SEQ ID NO: 3904:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3904:

CATAAGACAT AATCGCTAGT GTTCGAAAGA GCACTCACAA GATTAATAAC GCGTTTCCTG 60
TAGGATGGAA ACATAGATTA AGTTATTAAG GGCGCACGGT GGATGCCTTG GCACTAGAAG 120
CCGATGAAGG ACGTTACTAA CGACGATATG CTTTGGGGAG CTGÆAGTAA GCTTTGATCC 180
AGAGATTTCC GAATGGGGAA ACCCAGCATG AGTTATGTCA TGTTATCGAT ATGTGAATAC 240
ATAGCATATC AGAAGGCACA CCCGGAGANC TGAAACATCT TAGTACCCGG AGGAAGAGAA 300
AGAAAATTCG ATTCCCTTAG TAGCGGCGAG CGAAACGGGA AGAGCCCAAA CCANCAAGCT 360
TGCTTGTTGG GGTTGTAGGG CACTCTATAC GGAGTTACAA 
400

## (2) INFORMATION FOR SEQ ID NO: 3905:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 399 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3905:

AACTAACATT ACAACATGCA TGTGAACAAT TAAAAACATA TTTTAAGTAG GTGAATGAAA 60
TGGTAAATGA ACAAATCATT GATATTTCAG GTCCGTTAAA GGGCGAAATA GAAGTGCCGG 120
GCGATAAGTC AATGACACAC CGTGCAATCA TGTTGGCGTC GCTAGCTGAA GGTGTATCTA 180
CTATATATAA GCCACTACTT GGCGAATLCG TCGTACGATG GaCATTTTCC GACTGTTAGG 240
TGTAGAAATC AAAGAAGATG ATGAAAAATT AGTTGTGACT TCCCCAGGAT ATCAATCTTT 300
TAACACGCCA CATCAAGTNT TGTNTACAGG TAATTCCGGG TACGAAACA CGATTGATAG 360

# (2) INFORMATION FOR SEQ ID NO: 3906:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 377 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3906:

TTCTTTAAAA	ATAAACGCCT	ATnCGTTATC	GGTGGTGGTG	ATTCAGCAGT	AGAAGAGGGA	60
ACATTCTAAA	CTAAATTTGC	TGACAAAGTA	ACAATCGTTC	ACCGTCGTGA	TGAGTTACGT	210
GCACAGCGTA	TTTTACAAGA	TAGAGCATTC	AAAAATGATA	AAATCGACTT	TATTTGGAGT	180
CATACTTTGA	AATCAATTAA	TGAAAAAGAC	GGCAAAGTGG	GTTCTGTGAC	ATTAACGTCT	240
ACAAAAGATG	GTTCAGAAGA	AACACACGAG	GCTGATGGTG	TATTCATCTA	TATTGGTATG	300
AACCATTAAC	AGCGCCATTT	AAnGCTTAGG	TATTACnAAT	GATGTTGGTT	ATATTGTGAC	360
AAAGGTGGAT	TGGCCAC					377

# (2) INFORMATION FOR SEQ ID NO: 3907:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 502 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3907:

AATTAGGTAA	TTCAAAATAA	TATTAGCGCG	GGATGGAGCA	GTTCGGTAGC	TCGTCGGGCT	60
CATAACCCGA	AGTCGGtGGT	TCAAATCCGC	CTCCCGCAAT	A@TAGTTTT	TAATTTAATA	120
GGTCTCGTAG	TGTAGCGrTT	AACACGCCTG	CCTGTCACGC	AGAGATCGCG	GGTTCGATTC	180
CCGTCGAGAC	CGCCATTATT	ATTACCATTA	CGGTTCAGTA	GCTCAGTTGG	TAGAGCAATG	240
GATTGAAGCT	CCATGTGTCG	GCAGTTCGAC	TCTGTCCTGa	ACCATTCTTA	ATTCATGGCG	300
GTTGTGGTGA	AGTGGTTAAC	ACATCGGATT	GTGGTTCCGA	CATTCGAGGG	TTCGATCCCC	360
TTCAGCCGCC	CCATAATCGT	TTACATTAGC	GGGTGTAGTT	TAATGGCAAA	ACCTCAGCCT	420
TCCAAGCTGA	TGTTGTGGGk	TtCGrTTCCC	AtCAmCCnGy	TCCaTaATTT	CnAAnAATTC	480
CAACAGTAGC	CGCAAGTnGG	TA				502

- (2) INFORMATION FOR SEQ ID NO: 3908:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3908:

60	CCAACCAAAA TAATCAACAC	TATTGGTCAG	CTAGAATAAA	TCTCTACGTG	AAAAAATGCA
120	GCACATACAA AATGGAATTG	AAACAGTTTA	CATCTGACAC	TATTTAATGT	GAGGAGATGC
180	GTGMATATG GAAAAATAAA	CAGAAGACAA	CACCTAAATA	ATTGTCTTTG	TAAGTATCAT
240	AAAGGTGTAG AGATAATTGA	ATGTGAAAGA	TGCGTCAATT	GGGATTATAT	AAAAGATATA
300	ATACCACCCA AACTTGGGGG	GTTAGTTAGT	ATATCCATAT	TGTAAAGATC	AGCAGAGGCA
360	TTAATGGATA TTTGGATAGA	AAAAAGTAGT	TTTAAAAGGG	TGTTGGGCTA	TATCATCATT
400		ATAGGAAAGT	GATATGGGAA	TTAAAGTATA	CATGGCTAAC

#### (2) INFORMATION FOR SEQ ID NO: 3909:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3909:

GGTTTAACTA	TTGAAGAAAA	TGTGCCGACA	ATTAACAAGA	TAAAAAATGC	GGTATATTCA	60
G <b>CAG</b> AT <b>AAA</b> G	CTTTACCTAA	GATTAATGAC	TTTGCGAATA	AAATTGTATA	TTTGAATAAC	120
CACCAAGCGG	ATTTAGATAA	ATATGCCAAT	GATTTTAGAA	AACTAGGAAA	TTATAAAGGT	180
GATATTTTAG	ATGCTCAGAA	AAAATTAAAC	GAGTCAATGG	TGCTATTCCG	CAACTTAATG	240
AAAAGGCTAA	GTTGGATATT	AGCTTTTAAA	TAATTATATG	CCGGAAAATT	GGAAAAAGCG	300
TTTAAATTTT	GCAGCTGGAT	GACGTGCCAC	GCnGTTCCCT	AAAATÆATC	CAGGGCTTAA	360
CATTGCGAGT	CCAGGTATTG	GnTCCAAGCT	AATGGGGCCG			400

# (2) INFORMATION FOR SEQ ID NO: 3910:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3910:

TTACCCGATA	TCGGGAAGGT	ATCCACGAAG	GTGAAATTGT	AAAATGGTTT	GTTAAAGCTG	60
GAGATACTAT	TGAAGAAGAC	GATGTTTTAG	CTGAGGTACA	AAACGATAAA	TCAGTAGTAG	210
AAATCCCATC	ACCAGCATCT	GGTACTGTAG	AAGAAGTTAT	GGTAGAAGAA	GGTACAGTAG	180
CTGTAGTTGG	TGACGTTATT	GTTAAAATCG	ATGCACCTGA	TGCAGAAGAT	ATGCAATTTA	240
AAGGTCATGA	TGATGATTCA	TCATCTAAAG	AAGAACCTGC	GAAAGAGGGA	AGCGCCACAG	300
nAGCAAGCAC	CTGTAGCTAC	TCCAAACTGG	AAGAAGTAGA	TGGAAAACAG	ACTGTTTAAA	360
GCCATGCCTT	CCAGTTACGT	TAAATACGCA	CGTGGAAAAG			400

#### (2) INFORMATION FOR SEQ ID NO: 3911:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3911:

CGTGTAnCTC AAGTTATGGG TCCTGTAATT GATGTTCGAT TTGAACATAA CGAATTCCTA	60
AAATTAATAA CGCCTTGGTT ATTGATGTGC CTAAAGAAGA AGTACAATA CAACTAACAT	120
TAGAAGTTGC GCTGCAATTA GGTGACGACG TTGTTCGTAC AATTGCGATG GATTCAACTG	180
ATGGTGTCCA AAGAGGCATG GATGTAAAAG ATACAGGCAA AGAAATTAGT GTACCTGTTG	240
GTGACGAAAC ATTAGGTCGT GTATTTAATG TACTAGGTGA AACAATTGAC CTTAAAGAAG	300
AAATTAGTGA TTCTGTTCGC CGCGATCCTA TCCATCGTTC AAGCACCAGC ATTCCGATGG	360
AACTTTTCAA CAGAAGTTCC AAATTTTTAG GnACAGGGTA	400

#### (2) INFORMATION FOR SEQ ID NO: 3912:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3912:

TTGTACAAGT TGAAGAAAAA TCAACACAAC CAAAAGGTAG AAAATTCAAA GATTTCACTA 60
GTAAATTTAA TATAGCATCA GAAGCTAAAG AAAATGAACC TATATCAGTC ATTGGTTATC 120
CAAATCCTAA TGGAAATAAA CTACAAATGT ATGAATCAAC TGGTAAAGTA TTATCAGTGA 180
ATGGGAATAT AGTGTCATCG GATGCAATTA TTCAGCCTGG TAGCTCTGGT TCACCTATAT 240
TAAATAGTAA ACACGAAGCT ATTGGTGTAA TCTATGCCGG TAAAAGCCA TCAGGTGAAA 300

GCACCAGAGG GATTTGCTGT TTATTTCTCT CCTGAAATTA AGAAATTCCA TTGCAGATAA	360
TTTAGATAAA TnATTAAGAC CTAnGACATT CACCCAATCC	400
(2) INFORMATION FOR SEQ ID NO: 3913:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3913:	
ACTCATTTAG CTCTACTAAA CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA TTCAAACGTT	60
TTCACTTCGC CAAGCCATTT TTCTTTGTGT TTACTTTTTA TTTTGACGTT TTAGACATAA	120
AAAAAAGAGA CCTTGCGGTC TCAATGnGGC TCATCGCATC CATTTTTTGC CTGGCAACGT	180
TCTACTCTAG CGGAAGTAAG TTGGCTACCA TCGACGCTAA GAACCTTTCT TGACTTGTGA	240
CAATCGCTTG CTTCTTCCT CTTCTTCGGC TCTCGCTTAC TCATTTAGCT CTACTAAACT	300
CGTTGCGCTC TTTTCTCGTT TCGTCAGATT CAAACGTTTT CACTTCGCCA AGCCATTTTT	360
CTTTGGGGTT TGCnnTTTGA ATTTGGACGT TTTAGACATA	400
(2) INFORMATION FOR SEQ ID NO: 3914:	
(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	60
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> <li>(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3914:</li> </ul>	60 120
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3914:  TGGAATGAGC GGATATAAGC ATCTTTAGAT AATGCACCATCAACTAATGG ATATTTATGT	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3914:  TGGAATGAGC GGATATAAGC ATCTTTAGAT AATGCACCATCAACTAATGG ATATTTATGT  CCAGTTGGAC GCCAGAAATC ATAAACGTCT TCAGTGTAAG CAACAGCATC TTCATTTAAT	120
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3914:  TGGAATGAGC GGATATAAGC ATCTTTAGAT AATGCACCATCAACTAATGG ATATTTATGT  CCAGTTGGAC GCCAGAAATC ATAAACGTCT TCAGTGTAAG CAACAGCATC TTCATTTAAT  GCCAAAATGC TTGGATTATG TGCAATAACC ATCGCAACTG nGCCACACCT TGTGTTGGCT	120 180
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3914:  TGGAATGAGC GGATATAAGC ATCTTTAGAT AATGCACCATCAACTAATGG ATATTTATGT  CCAGTTGGAC GCCAGAAATC ATAAACGTCT TCAGTGTAAG CAACAGCATC TTCATTTAAT  GCCAAAATGC TTGGATTATG TGCAATAACC ATCGCAACTG nGCCACACCT TGTGTTGGCT  CGCCGCCTGA ATTCAATCCA TAACGTGCTG TATCTGTAGC AATAACTAAT ACTTTTTCAT	120 180 420
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3914:  TGGAATGAGC GGATATAAGC ATCTTTAGAT AATGCACCATCAACTAATGG ATATTTATGT  CCAGTTGGAC GCCAGAAATC ATAAACGTCT TCAGTGTAAG CAACAGCATC TTCATTTAAT  GCCAAAATGC TTGGATTATG TGCAATAACC ATCGCAACTG nGCCACACCT TGTGTTGGCT  CGCCGCCTGA ATTCAATCCA TAACGTGCTG TATCTGTAGC AATAACTAAT ACTTTTCAT  TCGGTCTAGT TGCTAAATAA TCTTTAGCTA ATTGAATTGC TGGTGTTGCA GCATAACAAG	120 180 420 300
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3914:  TGGAATGAGC GGATATAAGC ATCTTTAGAT AATGCACCATCAACTAATGG ATATTTATGT CCAGTTGGAC GCCAGAAATC ATAAACGTCT TCAGTGTAAG CAACAGCATC TTCATTTAAT GCCAAAATGC TTGGATTATG TGCAATAACC ATCGCAACTG NGCCACACCT TGTGTTGGCT CGCCGCCTGA ATTCAATCCA TAACGTGCTG TATCTGTAGC AATAACTAAT ACTTTTCAT TCGGTCTAGT TGCTAAATAA TCTTTAGCTA ATTGAATTGC TGGTGTTGCA GCATAACAAG CTTCTTTCAT TTCAAAGCAG CGTGCAAAAG GTTGGNATAC CTAATAAGTT GTGGAATTTG	120 180 420 300 360

(A) LENGTH: 371 base pairs

(B)	TYPE: nucleic	acid
(C)	STRANDEDNESS:	double

(D) TOPOLOGY: linear

(xi)	SEQUENCE	DESCRIPTION:	SEO	ΙD	NO:	3915:
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CCTTCTTATA	AAACTATTAA	TCGTATTAGA	GTGAATCCTA	ATACTGATGC	GTTAATTGAA	60
TCTTTATTTA	TCCAGTTTCA	TAGTCAATGT	TTAAAGCAAA	ATCTTATTGA	TGGTACAAAA	120
GTAGAAGCTA	ATGCCAATAG	GTATACATTT	GTGTGGAAGA	AAAGTATTCA	AAATCACGAA	180
TCGAAATTGA	ACGAnAATTC	AAAAACATTA	TATCGTGACT	TATTGAAGA .	ATAATAAAA	240
CCAGAGATAA	AAGAAGATGG	AGATAGCGAT	TTAACAATAG	AnGAAATAGA	TTTAATTGGT	300
AGTCATTTAG	ATAAAGAAAT	CGAGGTTTAA	ATCATTCTAT	TGAGACGnGA	TAGTACTCAA	360
ATTAGAAACA	G					371

# (2) INFORMATION FOR SEQ ID NO: 3916:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3916:

ACCATGGACG	ACGGTTAGGT	TTATGAATGT	TATTCCAAAT	AGGTTCATCT	ATAAAATAGC	60
TTTAGTTGGA	AAAGATGAGA	AAAAATATAA	AGATGGACCT	TACGATAATA	TCGATGTATT	120
TATCGTTTTA	GAAGACAATA	AATATCAATT	GAAAAAATAT	TCTGTCGGTG	GCATCACGAA	180
GACTAAT <b>A</b> GT	AAAAAAGTTA	ATCACAAAGT	AGAATTAAGC	ATTACTAAAA	AAGATAATCA	240
AGGTATGATT	TCACGCGATG	TTTCAGAATA	CATGATTACT	AAGGAAGAGA	TTTCCTTGAA	300
AGAGCTTGAT	TTTAAATTGA	GAAAACAACT	TATTGAAAAA	CAGATCTTTA	CGGTAACATG	360
GGTTCAGGAC	AATCGTATTA	AATGAAAACG	GGGGAATATA			400

# (2) INFORMATION FOR SEQ ID NO: 3917:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 412 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3917:

GAGGAAATTA TTAACCTTNC GCATCGTATG GGCCNTGAAG GAATAACAaC CTTTAGACCT 60

GGAGATTGAG CTAAAA	TACC TTCTAAGTTA	TCTGCGTGTA	ATTCTGGTGT	GTGTACGCCA	120
CCACCAAATG GGCTAC	GAAT TGTTACAGGT	GCAGTTTTAG	TACCGCCTGA	ACGGAAACGA	180
GTACGTGCAA TTTGTC	CAGC AATCGCATCA	AATACTTCGA	ATACGAAACC	TAAGAATTGT	. 240
ACTTCCATAA CCGGACG	GGAA TCCTTCAACT	GCAAGACCCA	TCGCTAAACC	ACCAATACCT	300
GATTCAGCTA AAGGTG	TATC GAATACTCTA	TCTTCACCAA	ATTCTTTTTG	TAGTCCTTCA	360
GTAACACGGA AAACAC	CGCC GTTAACACCA	ACGTCTTCAC	CAnAATnAAA	AC	412

# (2) INFORMATION FOR SEQ ID NO: 3918:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3918:

ATAGATTGCT	GAGTGACAAT	ACTTCAGGAn	TCGCATATGC	AGGCCCAATA	CCCATAATTT	60
TCGGGTCAAC	GCCTACTGCC	TTAAAACCAA	CGAATCGT <b>G</b> C	AATAGGTGTC	ACGCCGAGTT	120
CTTTCACTTT	ATCTCCAGAC	ATTAAAACTA	CAAATCCTGC	ACCATCAGAA	AGTGGGGCAG	180
ATGTTCCTGC	AGTCATAGTG	CCGTCAGCTT	TAAATACTGT	ACGTAATTTG	GCTAATGCCT	240
CCATCGTGGT	GTCAGGGCGT	ATnAAATTCA	TCTTGGTCAA	AGATATTTGT	GTGTACTTTT	300
GGTCCTGCGT	TTGTATATTC	AACTGAGTTT	ACTTGTATTG	GGATnATTTC	ATCTTTGGAA	630
CCGACCATCA	CGGTGTGCGT	TCATAGGCAC	GTTGATGnAC			400

## (2) INFORMATION FOR SEQ ID NO: 3919:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3919:

CAAGGGCAAC	AAGGTGGCAA	CGGCAATTAT	TTAGAACAAA	TTGGTCGTAA	CCTTACnAAG	60
AAGCACGTGA	CGGTTTATTA	GATCCAGTCA	TTGGTCGTGA	TAAAGAAATT	CAAGAAACTG	120
CTGAAGTTTT	AAGTAGACGA	ACTAAAAACA	ATCCTATATT	AGTTGGAGAA	GCTGGTGTTG	180
GTAAAACTGC	GATTGTTGAA	GGTTTAGCAC	AGGCAATCGT	TGAAGGAAAT	GTACCAGCAG	240
CAATCAAAGA	CAAAGAAATT	ATTTCTGTAG	ACATTTCATC	ATTAGAAGCT	GGAACGCAAT	300

ATCGTGGTGC TTTTGAGGAA AATATTCCAA AATTAATCGA GGGTTAAnC TTCACAAATG	360
CCGTACTATC TTTGATGAAn CCATCAATTA TCGGTTCAGT	400
(2) INFORMATION FOR SEQ ID NO: 3920:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3920:	
CTTATCCCGT CCACACATAG CTACCCAGCT ATGCCGTTGG CACGACAACT GGTACACCAG	60
AGGTATGTCC ATCCCGGTCC TCTCGTACTA AGGACAGCTC CTCTCAAATT TCCTACGCCC	120
ACGACGGATA GGGACCGAAC TGTCTCACGA CGTTCTGAAC CCAGCTCGCG TACCGCTTTA	180
ATGGGCGAAC AGCCAAGnCC TTGGGACCGA CTACAGCCCC AGGATGCGAT GAGCCGACAT	240
CGAGGTGCCA AACCTCCCCG TCGATGTGAA CTCTTGGGGG AGATAAGCCT GTTATCCCCG	300
GGGTAGCTTT TATCCGTTCA GCGATGGCCC TTCCATGCGG GAAnCAACGG ATTCACTAAA	360
GTCCGTCTTT TCGAACCTGG CTCGGACTTG TAGGTCTCGG	400
(2) INFORMATION FOR SEQ ID NO: 3921:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3921:	
CGGGTTGGGC AGGTATGTTG TATTACCGTT CACAGCAGCA TCACTTTGAA CAACATTTGT	60
TAACGGATTA TTTGGCAATT CGGTTAGTTG TCGAACAAT GCTAGTTGGT GATGAGTTTA	120
AGTCAGTCGC TAAAGATTGT GAAAGTAGAT CGGAAAATTG GTTTAAGCAA ACTGTTGCAT	180
CATGGTGTTA CTACAGTGGA TATGCCTAGC GATGTATTAC TACAACATGA CGTCAATGAA	240
ATTCAAACGT TTATTCATTT TGGCAGCAAC TATGGAATAA AAATGTATTT AAAATTTATG	300
GCTnAATTGC CnGGGGAAAT GACATACGGG ATCTCAGTTT AAAACAAAAA TTAAAGCAGG	360

- (2) INFORMATION FOR SEQ ID NO: 3922:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
    - (B) TYPE: nucleic acid

TCATGGAAAG TGTGGCGGGC GCCTTAGGTG TnAACCCAGT

400

(C)	STRANDEDNESS:	double
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(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3922:

GTGCGCTCTA ACCAGCTGAG CTATAGGCCC ATTTTTTGA ATGTTAAATA AACATTCAAA 60
ACTGAATACA ATATGTCACG TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC 120
TTAGAAAGGA GGTGATCCAG CCGCACCTTC CGATACGGCT ACCTTGTTAC GACTTCACCC 180
CAATCATTTG TCCCACCTTC GACGGCTAGC TCCTAAAAGG TTACTCCACC GGCTTCGGGT 240
GTTACAAACT CTCGTGGTGT GACGGCGGT GTGTACAAGACCCGGGAACG TATTCACCGT 300
AGCATGCTGT ATCTACGTTT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT TGCAGACTAC 360
AATnCGAACT GAGGAACAAC TTTTATGGGG TTTGNTTTGN 400

#### (2) INFORMATION FOR SEQ ID NO: 3923:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3923:

AGTAAGTAAA ATATAGATTT TACCAAGCAA AACCGAGTGA ATAAAGAGTT TTAAATAAGC 60
TTGAATTCAT AAGAAATAAT CGCTAGTGTT CGAAGAACTC CACAAGATTA ATAACGCGTT 120
TCCTGTAGGA TGGAAACATA GATTAAGTTA TTAAGGGCGC ACGGTGGATG CCTTGGCACT 180
AGAAGCCGAT GAAGGACGTT ACTAACGACG ATATGCTTTG GGGAGCTGTA AGTAAGCTTT 240
GATCCAGAGA TTTCCGAATG GGGAAACCCA GCATGAGTTA TGTCATGTTA TCGATATGTG 300
AATACATAGC ATATCAGAAG GCACACCCGG AGAACTGAAA CATCTTAGTA CCCGGAGAAG 360
AGAAAGAAAT TCGnTCCCTA GTACCGCGAN CGAAACGGGA

#### (2) INFORMATION FOR SEQ ID NO: 3924:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3924:

ATGCGATACG TAGCACAGCT GCAACAATCC ATGCTATAA AATCGGAGAC ATCTCTGTAC

60

C	CTTCAAACTA	GCAATTGTAT	TTCCGACACC	GCCGTCAATT	AATACTTGTT	TAATGTACCG	120
C	CACCGCCAA	TAATCAATAA	CATCATTCCG	ATTGGATAAA	TCGCATTCGT	CACTGATTCC	180
P	ATAATATGAT	TCATCTTACG	CTTTCTCATT	AATCCCATCG	TAACGGTTGC	AAATAATACT	240
G	CTATTAGCA	TGGCTGTCCC	TGCTGTTCCT	ATCATATAAA	TGATAGATTC	AAATAGATTT	300
G	STAGGGTTGT	CATGCCCAGT	TACAAGTTGC	GTTGATCGTn	GACACTAACA	TTAATATGAC	360
Ί	GGTAATGTT	GCTGTTAATA	AACTCATACC	AAnTCCGGGC			400
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# (2) INFORMATION FOR SEQ ID NO: 3925:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 525 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3925:

GGCTGGGCTA GCTGGATTCG	AACCAACGAG	TGACGGAnAn	AGGTCCGTTG	CCTTACCGCT	60
TGGCTATAGC CCAATATATA	GATGGTGGAG	GGGGGCAGAT	TCGAACTGCC	GAACCCGAAG	120
AGCCGGATTT ACAGTCCGCC	GCGTTTACCA	CTTCGCTACC	CCTCCAGCTT	ATTCATATAA	180
TTTAATAATC AAAATGGTGG	AGAATGACGG	GTTCGAAC <b>G</b>	CCGACCCTCT	GCTTGTAAGG	240
CAGATGCTCT CCCAGCTGAG	CTAATTCTCC	AAAATAATGA	CTCCTACGGG	ACTCGAACCC	300
GTGTTACCGC CGTGaAAGGG	CGTGtgCTTA	ACCcTTGGAC	CAAGGAGCCA	TGGCTCaCAG	360
GTAGGACTCG AACCTACGAC	CGATCGGTTA	Acagccgata	GCTCTACCAC	TGGAGCTGAC	420
TGTGGATTAA TATTATGCCT	GGCAACGTTC	TGAnnCTAGC	GGAAnTGAAT	TCGGACTGAC	480
CATCGACGCn AAGGAGCTGA	ACTTCTGTGT	TCGGGCATGG	GGAAC		525

#### (2) INFORMATION FOR SEQ ID NO: 3926:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3926:

TGTTATTGTT CAAAATCATG ATCAAGATCA GTATATCGTT GCTTATTATG AAGCGATGCA 60
TACATTATCA CATAATAAGA TTAAATCACA ATTACGTATG ACCTTACCGG AGTACATGAT 120
ACCAGTTAAT TTCATGCATA TTGAGCAAAT TCCTATTACT ATTAATGGGA AATTAGATAA 180
GAAGGCATTG CCTATCATGG ACTATGTCGA TACGGATGCC TATGTAGCAC CGAGTACAGA 240

TACCGNACAC TTGCTATGCC AAATTTTTGC AGATATTTTACATGTGAATC AAGTAGGTAT	300
TCATGATAAT TTCTTTGAAT TAGGnGGGCC ATTCCATTAA AAGCAACGTT ATGGGTGGAA	360
TCCGGATAGA GGCATCCACT GGGGAACGGT TACCAATTGG	400
(2) INFORMATION FOR SEQ ID NO: 3927:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3927:	
TATCGATCAA TTTCTATCGA GTTGGACAAT GCCGAACGTG ACAAAGTTTT TACCATGCAT	60
GGTTGCATTT AGCGCAACAT GACCATAGTT TTACTAAAGC ACAGCGCGCA AGTGATTAAA	120
GGCTTACCCA ATGATCCTGA AATGACGATA GAGTCAGTAT TAACTCATTT TTCAATAGAT	180
CAGGAAGACT ACCAAGCTTA TGTTGAAGGA CATCTTTTGG CGTTACCGGG TTGGGCAGGT	240
ATGTTGTATT ACCGTTCACA ACAGCATCAC TTTGGAACAA CATTTGTTAA CGGATTATTT	300
GGCAATTCGG TTAGTTGTCG AACAATTGCT AGTTGGTGGA TGAGTTTAAG TCCATCGCTA	360
AAGATGTGGA AATAGnCCGG AAAATGGTTT TAAGCAAACT	400
(2) INFORMATION FOR SEQ ID NO: 3928:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 400 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3928:	
GTGCACCTAA CGCTGAAATA TCGCCTTCTC GTGTAT&CA GACGGAATCA TTTTTTGTGC	60
Antitgttaa atataggccc tgcaatgagt gtactggaat ggcaataatc ataccataca	120
GTAATACATC TCCAACATTT GCCTTTAATT CTTTTGCGAT GACTACCGGT CCTGGATGTG	180
GTGGTAAAAA GCCATGTGTC ACTGATAAAG CTGTTACCAT AGGTAGTCCT AGTTTTAACA	240
CTGAAACATT TGCGCGTTTT GCTACTGTAA ATACTAATGG AATCAGTAAG ACTAAACCTA	300

CATGGTTTTT GGACCAAATT TTTGGAATCA ACGTGTCTGG

360

400

CTTCAAAGAA CAATGCAATA CCGACGATAA ATGCTGGCAA CAAGCATTGC CCCATTGGTA

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3929:

CTCAAGGTGT TGCCTATACA GCTAAAAAAC TTAATTTAAA CGCTGTTATC TTTATG	SCCAG 60
TCACTACACC TTTACAAAAG GTAAATCAAG TAAAGTTCTT TGGAAATAGT AACGT	rgaag 120
TTGTACTCAC TGGTGATACA TTTGATCACT GTTTAGCTGA AGCTTTAACT TATACA	AAGTG 180
AACATCAAAT GAACTTTATA GATCCATTCA ATAATGTT@ TACAATTTCT GGACAA	GGTA 240
CGCTTGCTAA AGAAATGCTA GAACAAGCAA nGTCTGACAA TGTTAACTTT GCATTA	ATCTA 300
TTTGCCGCAA TTGGTGGTGG CGGTTTAATT TCAGGTATTT CGTACTTACT nTTAA	AACCT 360
ATTCACCTAC CACGnAAATT ATAGGTGTTG AACCCCnAGT	400

- (2) INFORMATION FOR SEQ ID NO: 3930:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 374 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ IDNO: 3930:

ATATGATCCT	ATGAAGCAAT	TTTATGTAGT	AAGTGGTTCT	AAACATGACG	CCCTTATGCT	60
CTGTGAACAT	TTATATGACG	AGGTTATGGC	TGTTTGCTAA	nCCCAAATGA	TACATCGAAT	120
GGCACATATC	ATTCGTCGCA	ATATGATTAC	TATGATGCAT	TTATTAAGCA	GCAAGAAAAT	180
GTAACA <b>T</b> ATA	TTTCAACCGA	TCGTGCAGAT	GCTAATACAG	TGTTATGTCA	CTAATTTATA	240
AAAAATAAAT	GAATAAGTAA	GGTTTCAACC	GAGAGAATAT	ATTCGTGTTG	AAGCCTTATT	300
TGTCGTTGTG	CCAAATTTGA	ACGnTTTAGA	TGGCAATAAG	CATGACCATA	CAGATTGTGT	3 <b>6</b> 0
ATTATTTCCA	TGnA					374

- (2) INFORMATION FOR SEQ ID NO: 3931:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 387 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3931:

ACCTGTGCGG	TCATCCGTAC	CATCCACATA	ATTAAAGGCT	CTACGTAAAA	TTGACGTATT	60
TGCTTCTTTC	GCTAGCCTCG	TATGGGCATC	TTTATCAATA	ATATACTCGC	CATGACTATC	120
TTTCGCTTTT	AAGTCAATTT	CATCAAACTC	TTTCCCACCT	GTTAACGGTG	CACCACTATG	180
TCGTTTCCGA	CCAAATGTAG	CCTCTTGTTC	TTCCAGCGCA	GTACGATCCC	ACGTTTCAAT	240
GTGTATTTGA	ATACGTCTGA	CAACGCAATA	AGTTCCATGT	TTCGCCCATC	CGTCATCAAT	300
AAACACATAA	TCTTTAAGTT	GATTATTCTT	CCTAGGATTA	ATTGTTCCAC	TTTAAAATGC	360
CATTNAAATT	CTAGGTGTTT	CCnTAnC				387

## (2) INFORMATION FOR SEQ ID NO: 3932:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3932:

AAGGTAATAA	TCCTGTAGTC	GAAAATGTTG	TCTCTCTTGA	GTGGATCCTG	AGTACGACGG	60
AGCACGTGAA	ATTCCGTCGG	AATCTGGGAG	GACCATCTCC	TAAGGCTAAA	TACTCTCTAG	120
TGACCGATAG	TGAACCAGTA	CCGTGAGGAG	AAGGTG <b>A</b> AA	GCACCCCGGA	AGGTAGnTGA	180
AATAGAACCT	GAAACCGTGT	GCTTACAAGT	AGTCAGAGCC	CGTTAATGGG	TGATGGCGTG	240
CCTTTTGTAG	AATGAACCGG	CGAGTTACGA	TTTGATGCAA	GGTTAAGCAG	TAAATGTGGA	300
GCCGTAGCnG	AAGnAnGTTC	TGAATAGGGC	GTTTAGTATT	TGGTCGTAGC	CGATAACCAG	360
GTGATTCTAC	CCTTTGGTCA	GGTTGAAGTT	CAAGTAACAT			400

### (2) INFORMATION FOR SEQ ID NO: 3933:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3933:

GCGATGGTTG	AAACATTGAC	TTATATTAAA	GAGTTTATGA	ACCAAGTTGA	GTCGCATAGC	60
TAGTATGAAA	CGTGGTGTGC	GCATGGGAAC	TATCAAGCTT	TGAAGATGTG	GTACTACATG	120
CGTTGAATTA	GGCATCGGTA	CTTTATATGA	AGACGTGCTG	CTTCCATTAA	ATGAGTGATG	180
CGATTTTGGC	ATGAAGGTCA	CCTTAAATGT	ACATTGTTGT	AATAAAATTG	CCTATAAATT	240

TTTAGCACAT AAAATAAGAG	GnGCCAACCA	TTGTTAGACT ATAACAACGG TTGGCTCTTT	300
AATTGTAAAA AGAAAACCAT	ACGCTATGTG	nTGCCAAG@ AAAGGTTCTA CCATTGTCAC 3	60
nAAAAATGCA TCTCTACGTG	CTAGGAATAA	ATATTGGGTC	400

# (2) INFORMATION FOR SEQ ID NO: 3934:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3934:

TTTGACGTTT TAGAC	ATAAA AAAAGAGACC	TTGCGGTCCA	GATGGGGCTC	ATCGCATCCA	60
CTTTTTGCCT GGCAA	CGTTC TACTCTAGCG	GAAnTAATCG	AACTACCATC	GACGCTAAG	120
AGCTTAACTT CTGTG	TTCGG CATGGGAACA	GGTGTGACCT	CCTTGCTATA	GTCACCAGAC	180
ATATGAATGT AAATT	ATACA TTCAAAACTA	GATAG <b>TAA</b> GT	AAAAGTGATT	TTGCTTCGCA	240
AACATTTATT TTGAT	TAAGT CTTCGATCGA	TTAGTATTCG	TCAGCTCCAC	ATGTCACCAT	300
GGCTTCCACC TCGAA	CCTAT TAACCTCATC	ATCTTTGAnG	GATCTTA <b>T</b> AA	CCGAATTGGG	360
AAnCTCATCT GAAGG	GGGCT CAGCTAGATG	CTTCAnACTT			400

# (2) INFORMATION FOR SEQ ID NO: 3935:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 393 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3935:

TGTTCTTTTT	GGGCAGTGGG	ACACAAATGG	ATATTTTCGG	CAAAATTTAT	TTCGTTCGnT	60
CCCACCCCAA	CTTGGCACAC	TATTGTAAGC	TGACTTTCG	CCAGCTTCTG	TGTTGGGGCC	120
CCGCCAACTT	GCCATTGTCT	GTAGAAATTG	AGGAGCTAAT	TTCTCTGTGT	CGGGGCTCCA	180
CCCCAACTTG (	CACACTATTG	TAAGCTGACT	TTCCGCCAGC	CTCTGTGTTG	GGGCCCCGCC	240
AACTTGCACA (	CTATTGTAAG	CTGACTTTCC	ACCAGCCTCT	GTGTTGGGCC	CCGACTATTT	300
TTGAAAAGAG (	CGTGTTACAC	GGGCATTGTT	TTACAGTCAA	CTACTGCTAA	AATAAAATTA	360
ACGAGCTTAA (	GGCTTTGGnT	TCTGTCCCAA	GCC			393

- (2) INFORMATION FOR SEQ ID NO: 3936:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3936:

AAAAAGAAGA CAACCAAGCC CAATAATGGA CTGGCCGCGT AATAATnGTG GCTCTAAAAG 60
TTGTATTTA AAAATAGTTC TTTAAATTAT ATACCCACCA CATTTGGTGG AGAACCTAAA 120
AAAAAAGCACT TCCCAAAAAT GGAAAGTGCA AGTAGTGAGC CATAGAGGAT TCGAACCTCT 180
GACCCTCTGA TTAAAAAGTCA GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC 240
TAGCTGGATT CGAACCAACG AGTGACGGAN TCAAAAGTCC GTTGCCTTAC CGCTTGGCTA 300
TAGCCCAATA TATAGATGGT GGAAGGGGGC AGATCGAACT GCCGAACCCG AGGAGCGGAT 360
TTACAGTCCG CCGCGTTTAG CACTTCGCTA CCCTCCAGCT 400

#### (2) INFORMATION FOR SEQ ID NO: 3937:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 609 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3937:

GGTTTAACAC GCCTGCCTGT CACGCAGGAG ATCGCGGGTT CGATTCCCTG TCGAGACGC 60 CATTATTATT ACCATTACGG TTCAGTAGCT CAGTTGGTAG AGCAATGGAT TGAAGCTCCA 120 TGTGTCGGCA GTTCGACTCT GTCCTGAACC ATTCTTAATT CATGGCGGTT GTGGTGAAGT 180 GGTTAACACA TCGGATTGTG GTTCCGACAT TCGAGGGTTC GATCCCCTTC AGCCGCCCCA 240 TAATCGTTTA CATTAGCGGG TGTAGTTTAA TGGCAAAACC TCAGCCTTCC AAGCTGATGT 300 TGTGGGTTCG ATTCCCATCA CCCGCTCCAT TATTTCTAT TATTCCACAG TAGCTCAGTG 360 GTAGAGCTAT CGGCTGTTAA CCGATCGGTC GTAGGTTCGA GTCCTACCTG TGGAGCCATG 420 GCTCyTTGGt CAAGCGGTTA AGACACCGCC CTTTCACGG GGTAACACGG GTTCGAGTCC 480 CGTAGAGTYC ATACAAGCAG AAGTGNAAAT ATCGCTTCTG TTTTTTTATT ACATAWTTAA 540 TkGTTGgAGG aAGtTGTcCG AgCyGGGCCG AAGGaGCACG CCTGGAAATG TGTÁAGCGTT 600 CACAAGCTT 609

## (2) INFORMATION FOR SEQ ID NO: 3938:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs

(B)	TYPE: nucleic	acid
(C)	STRANDEDNESS:	double

(D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ IDNO: 3938:

Τ.	AAAGTTGTT	CTCAGTTCGG	ATTGTAGTCT	GCAACTCGAC	TACATGAAGC	TGGAATCGCT	60
Α	GTAATCGTA	GTCAGCATGC	TACGGTGAAT	ACGTTCCCGG	GTCTTGTACA	CACCGCCCGT	120
C.	ACACCACGA	GAGTTTGTAA	CACCCGAAGC	CGGTGGAGTA	ACCTTTTAGG	AGCTAGCCGT	180
C	GAAGTGGGA	CAAATGATTG	GGGTGAAGTC	GTAACAAG <b>G</b> T	AGCCGTATCG	GAAGGTGCGG	240
C	TGGATCACC	TCCTTTCTAA	<b>G</b> GATATATTC	GGAACATCTT	CTTCAGAAGA	GCGGAATAAC	300
G	TGACATATT	GTATTCAGTT	TTGAATGTTT	GTTCATTCAA	ATTAATG <b>GG</b> C	CTATAGCTCA	360
G:	nGGTTAnAG	CGCACCCTGA	TnAACGTGAA	GTCGGTGGTT			400

# (2) INFORMATION FOR SEQ ID NO: 3939:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3939:

AGTTTTGAAT	GTATAAATTA	CATTCATATG	TCTGGTGACT	ATAGCAAGGA	GGTCCACCTG	60
TTCCCATGCC	GAACACAGAA	GTTAAGCTCC	TTAGCGTCGA	TGGTAGTCGA	ACTTACGTTC	120
CGCTAGAGTA	GAACGTTGCC	AGGCATAATA	TTAATCCACA	GTAGCTCAGT	G <b>GTA</b> GA <b>G</b> CTA	180
TCGGCTGTTA	ACCGATCGGT	CGTAGGTTCG	AGTCCTACCT	GT <b>GG</b> AGCCAT	GGCTCTTGGT	240
CAAGCGGTTA	AGGACACCGC	CCTTTCACGG	CGGTAACACG	GGTTCGAGTC	CCGTAGAGTT	300
CATTATTTTG	GAGAATTAGC	TCAGTAGGGA	GAGCATCTGC	CTTACAAGCA	GAGGGTC <b>G</b> GC	360
GGTTTCGAAC	CCTnCATTTT	CCACCATTTG	GTTATTAAAn			400

# (2) INFORMATION FOR SEQ ID NO: 3940:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3940:

ACACAACAGC TGTTTCAAAA ATGATTGGTA CAACTGCTGG TTATGTTGGT TATGATGACA 60

ATTCAAATAC	GTTAACTGAA	AAAGTACGCC	GTAATCCATA	CTCAGTCATT	CTATTTGATG	120
AAATCGAAAA	AGCAAATCCA	CAAATTTTAA	CATTGT'ATT	ACAAGTAATG	GATGATGGTA	180
ATTTGACTGA	TGGTCAAGGT	AATGTCATCA	ACTTTAAAAA	TACAATTATT	ATTTGTACAT	240
CAAATGCTGG	CTTTGGCAAT	GGCAATGACG	CTGAAGAAAA	AGATATTATG	CACGAAATGA	300
AAAAATTCTT	CCGCCCTGAA	TTCCTTAACC	GCTTCAACGG	CATCGTGAAT	TnCTTACATT	360
TAGATAAGGT	GCCnTGCAGG	TATCGTCCAA	CTATTATTAG			400

### (2) INFORMATION FOR SEQ ID NO: 3941:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3941:

ATACAATTTT AAATCTGTAT GTGTGAATCC AACACATGTT AAATATGCAG CAGAGCG	GnCT 60
AGCTGATTCA GAGGTGCTCG TTTGTACGGT AATAGGATTC CCATTAGGTG CGTCGAG	CAAC 120
TGCAACGAAA GCATTTGAAA CAGAAGATGC AATTCAAAAT GGTGCAGATG AAATTGA	ACAT 180
GGTCATCAAC ATCGGCGCAT TAAAAGATGG ACGTTTTGAT GATGTACAAC AAGACA	TTGA 240
AGCAGTGGTT AAAGCTGCGA AAGGTCACAC AGTAAAAGTG ATTATTGAGA CGGTATT	TGTT 300
GGACCATGAC GAAATTGTAA AAGCGAGTGA TTAACAAAA CGGCTGGTGC GGACTTC	GTT 360
AAAAACTTCA GCAGGTTTTG CCAGTGGCnG TGCGACTGCA	400

## (2) INFORMATION FOR SEQ ID NO: 3942:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3942:

CTCTGGATCA AAGCTTACTT ACAGCTCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA 60

TCGGCTTCTA GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCOA 120

CATTTTTATA AGTCAAACGT TAACATGAAG TTACGTTCTT TTATAAAAAG ATTTAAACGC 180

GTTATTAATC TTGTGAGTGT TCTTTCGAAC ACTAGCGATT ATTTCTTATG AATTCAAGCT 240

TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA TCTATATTTT ACTTACTNAT 300